



QUARTER CENTURY WIRELESS ASSOCIATION
1409 Cooper Drive
Irving, TX 75061



FORWARDING & RETURN
POSTAGE GUARANTEED

PRINTED MAT

QCWA

NEWS

FALL 1980

Volume 29

No. 3

QCWA INTERNATIONAL

RADIO NETWORKS

Sundays:

2000 UTC

14346 kHz

NCS: W2SF, W6FQ

Wednesdays: "CW"

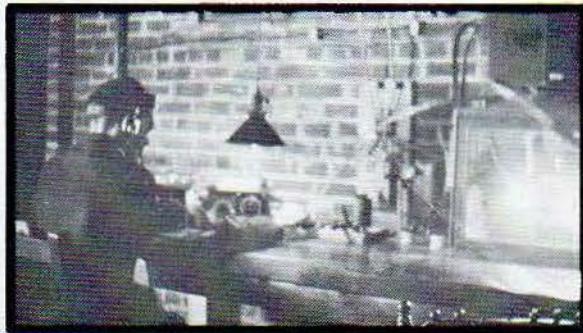
8:00 PM Local
Eastern
Time

on 7035 kHz

9:00 PM Local
Eastern
Time

on 3750 kHz

NCS: W2JBL, W9CV



Pictured at left, Fred Bornman, W8QJ, 16 years old, operating spark..

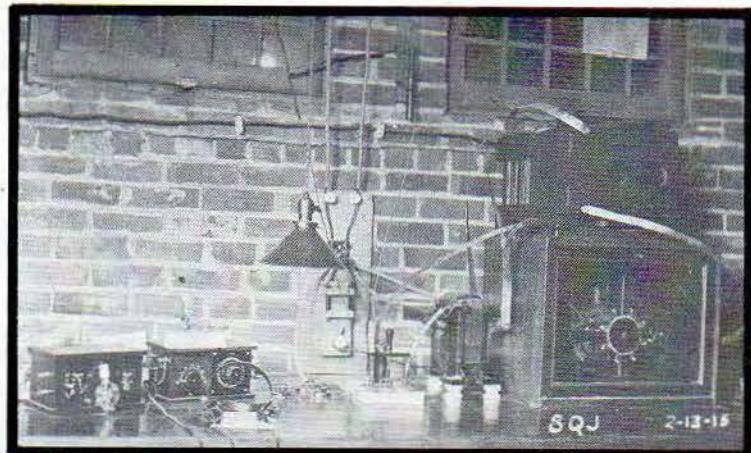
Fred is now 81 years.. in good voice, and has a good sharp memory.

The picture at left in which one can see the rotary gap going full speed ahead, was taken with Fred operating in his basement location.

The rig, shown better below, consisted of a 3/4 kW transformer, a stack of capacitors, and a home-made rotary gap, using a vacuum cleaner motor mounted on springs. The key was a Boston, mounted on a marble base. The aerial was a 5-wire about 40' high.

The receiver was a Clapp-Eastham tuner, using both a DeForest audion and a galena crystal. The tuner was by variable inductance, as were most in 1915 and Fred reported that it worked fine. Fred took part in the February 21, 1916 Washington's Birthday Relay, originated by 9XE. He and 8ON spent hours receiving the MSG, and relayed it as a part of the National Relay that gave Amateur Radio a great public image.

Fred Still has the Clapp-Eastham receiver! He has been a printer/lithographer all of his life, and is now retired.



THE RIG SHOWN ABOVE WAS THE PROPERTY OF FRED BORNMAN, W8QJ, WHO HELD THE CALL CONTINUOUSLY SINCE 1914. FRED HAS BEEN A RESIDENT OF DETROIT HIS ENTIRE LIFE!

Aye! Larsen's clan of Külrod® Antennas deliver top performance and value!

Performance and value are built into every Larsen Antenna because of craftsmanship that accepts no compromise.

Making mobile antennas, mounts and accessories is Larsen's *only* business. All of the company's research, engineering, and production efforts are directed to making the best antennas money can buy. The end result is the exclusive Külrod by Larsen. A Külrod antenna delivers maximum radiation efficiency instead of losing power to heat.

Larsen's antenna clan includes low band, high band, quarter wave, VHF, UHF, mobile, fixed base and Külduckies for hand-holds. And Larsen offers every type of permanent and temporary vehicle mount — including a magnetic model that's a real grabber.

So whatever band you operate on, if your antenna is a Larsen you'll HEAR the difference!



Larsen Antennas

P.O. Box 1686, Vancouver, WA 98668
Phone: (206) 573-2722

In Canada, write to:
Canadian Larsen Electronics, Ltd.
283 E. 11th Ave., Unit 101
Vancouver, B.C. V5T 2C4
Phone: (604) 872-8517

® Külrod is a Registered Trademark of Larsen Electronics, Inc.

™ Külduckie is a Trademark of Larsen Electronics, Inc.



QCWA NEWS

JOURNAL OF THE QUARTER CENTURY WIRELESS ASSOCIATION

Volume 29, No. 3

Fall, 1980

QUARTER CENTURY WIRELESS ASSOCIATION

OFFICERS 1979-81

Harry S. Gartsman, W6ATC	President
H. A. (Hal) Sears, W5NC	Vice President
Ethel Smith, K4LMB	Secretary
Art Monsees, W4BK	Treasurer

DIRECTORS

Gus Gironda, W2JE
Henry Harley, VE3BR
Leo Meyerson, WØGFQ
Art Miligan, W8KW
Leland Smith, W5KL

WHAT'S INSIDE

Meet Your Nominating Committee	72-73
QCWA NATIONAL CONVENTION INFORMATION	74-75
1981 Election Tellers Appointed	78
QCWA SCHOLARSHIP WINNER ANNOUNCED	79
QCWA FUNTEST	80-81
DLL's Corner	82-83
ADVANCE PROGRAM, QCWA 1980 CONVENTION	84
Barney's Antique Exchange	90-91

QCWA STAFF

Ted Heithecker	W5EJ	General Manager
Rollie Terrill	W5RC	Assistant General Manager
Wesley Randles	W4COW	Activities Manager
J. R. Neelands	W6DLL	Books and Publications
Lee Knirko	W9MOL	Advertising Manager
Ellsworth Weinberg	N5EW	Legal Advisor
Cindy Jones	W5ZPD	YL's Viewpoints
T. E. Heithecker	xWN5UVZ	Computer Consultant

QCWA NEWS. Published by QUARTER CENTURY WIRELESS ASSOCIATION, Inc., 1409 Cooper Drive, Irving, TX. 75061, under authority of the Board of Directors.

Edited by: Ted Heithecker, W5EJ

Mailed as 3rd class material, Dallas, Texas. Permit number 8167.



QUARTER CENTURY WIRELESS ASSOCIATION was founded December 5, 1947, and is incorporation in the State of New York, as a non-profit organization..

Permission to reprint is granted. Credit QCWA & authors, where identified.

PRESIDENT'S LETTER

With the end of summer approaching all amateurs feel a quickening of interest...propagation begins to improve, static drops off, and one can hear in his mind's eye, those weak, elusive DX signals that occur on cold, crisp Fall and Winter nights. It is likewise true that we QCWA Members begin thinking of our Annual Convention...the time that brings us together for eye-to-eye visits...it's true that we can't live without radio, but that personal get together is pretty nice too! The QCWA National is set for Orlando this year, October 30, 31 and November 1, 1980. You will find full information on the Convention, where, how, how much and programs planned in this issue of QCWA NEWS. Won't all who possibly can please attend the meeting.

The Board of Directors will meet to consider matters of importance to QCWA. Input from members is invited. If you have urgent material that you would like considered, write with details so that it may be placed on the agenda of matters for consideration. There is never time enough to permit the Board the luxury of taking up items at random. Items for the agenda should be transmitted to our Corporate Secretary, Ethel Smith.

Announcement of formation of a Nominating Committee occurs in the NEWS. They are already hard at work preparing a slate of candidates. Members are asked to nominate additional candidates. This can be done by petition. The deadline for nominations by petition is February 20, 1981

A board of tellers has been appointed and confirmed by the Board. Ballots will be counted under the watchful eye of The Colorado Chapter QCWA!

SEE YOU IN ORLANDO -

Harry S. Heithecker

QCWA HONOR AWARDS

QCWA MEMBER OF THE YEAR

1979	Mr. Ed Trombley, W8CAM Mr. M. W. McRae, W9RC
------	---

QCWA HALL OF FAME

1979	Mr. Ray Meyers, W6MLZ
------	-----------------------

PAST PRESIDENTS

John DiBlasi, W2FX, President Emeritus	1947-1964
Earl R. Thomas,* W2MM	1964-1968
Clarence Seid, W2KW	1968-1971
Barry Goldwater, K7UGA	1971-1973
Frank A. Gunther, W2ALS	1973-1977

EXECUTIVE SECRETARY/GENERAL MANAGERS

Ralph G. Barber,* W2ZM	Emeritus	1955-1964
Gus Gironda, W2JE		1964-1973
Ethel Smith, K4LMB		1973-1976

HONORARY MEMBERS

George E. Sterling	Peaks Island, Maine
Richard E. Wiley	Arlington, Virginia
Rosel H. Hyde	Washington, D.C.
Col. W. J. Baird	Alexandria, Virginia
Robert E. Lee	Washington, D.C.

SOUTHERN CALIFORNIA CHAPTER

Out of 108 reservations for our Spring Dinner meeting, we had only one no-show and sorry that we had to turn down ten others. Chairman Bert Ayers, W6CL, had the pleasure of distributing 50-Year Golden Certificates to: Tom Settle, W6CUJ; Bob Jensen, W6VGQ; Bill Stewart, K6HV; Ralph Cabanillas, Jr., W6IL, and Gene Stephens, WA6HOQ. They are shown in the pix below in that order, L-R, except for Bert who is the member without the Certificate!

Our hardworking public relations Gal, Lenore Jensen W6NAZ gave us an idea of what was happening in the field of ham publicity by playing some of the latest "commercials" for Amateur Radio that were made by Dick Van Dyke and by Lorne Green. Then, the inimitable Mert Moser, W6HS, described his trip around the world with his Lady, Ruth. He will not forget the stop at Pitcairn Island (ask him for details!)

As this is being written, arrangements are going forward for the Southwestern Division ARRL Convention. The QCWA will have a booth in which to exhibit among other things a Thordarson 1 kW spark rig with rotary gap, courtesy W6VGQ.. To update things we are going to try to key the "Beast" by means of a Morse keyboard (if it gets finished in time.)



The Convention will be at the Airport Marriott Hotel, in Los Angeles, on September 5, 6 and 7. In the planning stage is a Hospitality room and Breakfast for members of QCWA!

- - - - - Moe, W6PHE - - - - -

QCWA IS SPELLED "FELLOWSHIP"ARK-LA-TEX CHAPTER

The Ark-La-Tex Chapter of QCWA met at the Brookshire Cafeteria in Shreveport on the evening of July 22, 1980

The Chapter was advised that due to a transfer, our President, Father Jay May, W5QIK, could not complete his term in Office. A committee appointed Joe Carlson, W5LQ, as interim president, to take place as soon as he returns from his annual vacation trip. Our Secretary-Treasurer, John Ross, W5NFV, conducted the meeting.

Other than a "Good Old-Fashioned Rag-Chew" the only serious business at the meeting was arrangement of a committee to maintain the QCWA Booth at the Annual Show of the Shreveport Amateur Radio Association, to be held at Concentration Center, on August 2 & 3. A QCWA Breakfast to be held at the Bossier Samb's on Saturday Morning, August 2, was arranged.

Attending the meeting: John Ross, W5NFV; Ernie Gaw, W5MXC; Dan Barton, W5MJC; Harold Hicks, KH6OES; Bud Ports, W5AJS; Dwight Brown Jr., W5WE; Dwight Brown Sr., W5ABA; Roy Matthews, W5KX; Ralph Payne, W5JFF; Andy Lord, W5MFS; R. O. Barney, W5ISP; Dayle Odell, W5CMV; W. D. Pearson, W5WDG; Joe Barber, W5AXA; Virgil Holobaugh, W5LMS; Homer Hooper, W5DPS; Jim Long, W5PNB; a new member, Tony Hall, K5KDQ, & Irv Wolfe, W5RQH.

The next meeting will be held Tuesday evening, October 21, at 6:30PM, at the same location....all are welcome!

- - - - - Irv, W5RQH - - - - -

WISCONSIN CHAPTER #55

At left, a photo taken at the last Chapter meeting in June, John La Blonde, W9FZC being awarded his 50-Year Golden Award. John has held the same call the entire 50 years and has been a very active ham! His work began in 1928 in the town of Antigo, WI, with help from W9CGO, now SK, his first rig was a hartley using a 112 with 300 V on the plate, AC!! It sounded like a keyed power leak!

John is Training Officer for the Wisconsin Law Enforcement computer systems working out of Madison, traveling widely, he uses 2 meters throughout the State. He participates in the QCWA Net and the Midwest Country Cousins as NCS!

The Chapter is planning a fall luncheon meeting in October. The location is not yet selected, will be announced later!

=Fred, W9NZF=

QCWA NOMINATING COMMITTEE CHAIRMAN Lew Sieck, K4NE, has sent a letter of inquiry to all present QCWA Officers and directors inquiring as to their desire to serve an additional term. A letter which outlines Committee procedures from the Chairman, has been transmitted so that all will understand their responsibilities.

HALIFAX CHAPTER #125

The Chapter organizational meeting was held July 12, 1980. Nineteen Members and guests were present at the meeting called to order at 11:15 AM by Acting Chairman, Dick Frederic, N4CBU.

The proposed Constitution and By-Laws were read; minor amendments were adopted via voice and adopted as read. Election of Officers to serve until July of 1981 saw the following elected:

Dick Frederick, N4CBU, Chairman
Bill Holdich, K4GJ, Vice Chairman
Francke Fox, WB4WTJ, Secy/Treasurer

Regular informal meetings will be held the second Saturday of each month. Business meetings will be scheduled on a quarterly basis. On-the-air meetings will take place Saturdays, 11AM on 3897 kHz. Chapter members adopted a dues schedule of \$3.00 per year. It is planned that a convoy of members will go to the National Convention!



Pictured above, L-R, are: Bill Holdich, K4GJ, Vice Chairman; Dick Frederick, N4CBU, Chairman; Francke Fox, WB4WTJ, Secretary/Treasurer! Photo by W2DXZ.

PICTURES AT QCWA FOUNDERS MEETING, DECEMBER 5, 1947



L-R, (CW), W2BR, W2FO, W2EF, - W2RB, - W2GG, W2EA
(Number 4 and Number 6 not identified)



December 5, 1947

L-R, W2BW, W2KR, W2FX, W2DX, W2UD



December 5, 1947

L-R, W2FD, W2IN, W2CVF, W2LFR, W2EC



December 5, 1947

L-R, (CW) W2GX, W2YM, W2CO, W2CM, W2MM, W2AMJ,
W2FIT, W2BR, W2FO, W2EF, W2RB, W2GG,
W2EA, W2KW, W2OG, W2II, W2FZ.



December 5, 1947

L-R, W1HRX, W2AMB, W2GX, W2YM, W2CO, W2CM



These pictures, taken of the founding meeting of QCWA on December 5, 1947, were taken at the direction of John DiBlasi, W2FX, the first President of QCWA. The pictures were sent to us for publication by Ed Crane, W2EF.

Identification of those pictured was carried out by Ralph Hasslinger, W2CVF. Two men, in the upper left-hand picture were not identified. If anyone can identify them, please advise HQ, so we print them in the next NEWS.

The pictures have been published in the past, but many new members of QCWA have not seen them. We felt that it was desirable to get them into print again, to keep the memory of our Founders alive! Thanks to all who helped make it possible! -W5EJ-

SUMMARY OF MINUTES
MEETING OF THE QCWA BOARD OF DIRECTORS
April 25-26, 1980

A mid-year meeting of the QCWA Board of Directors was held at Dayton Ohio on April 25-26, 1980. Those in attendance were:

President Harry Gartsman, W6ATC
Vice Pres. Hal Sears, W5NC
Treasurer Art Monsees, W4BK
Directors: Gus Gironda, W2JE
Henry Harley, VE3BR
Art Milligan, W8KX
Leland Smith, W5KL
General Manager Ted Heithecker, W5EJ

Those absent were: Ethel Smith, K4LMB, Secretary, and Leo Meyerson, W6GFQ, Director.

Minutes of the September 1979 Board meeting were approved following minor corrections and minutes of the Special (telephone) Meeting of October 12, 1979 were approved. The 1979 Financial Statement, submitted by Treasurer and approved by the Auditing Committee, was reviewed and approved.

The Board discussed the matter of dues structure and a committee was appointed to make studies and recommendations to the Board with respect to the dues and services to be applicable to International members. The General Manager is investigating the feasibility of a Family Membership.

A modified dues structure was approved providing for payment of dues in one, two or three year increments. Fees adopted were:

1 Year fee - \$9.00
2 Year fee - \$15.00
3 Year fee - 19.00

Under this schedule, a new member may join QCWA for a total sum of \$12.00 (\$3.00 initiation and \$9.00 for one year's dues.) No change was made in Life Membership fees at this time.

The requirement for QCWA members to retain status as a licensed Amateur was discussed and it was felt that the requirement should be maintained.

A new 70 Year Anniversary Certificate was authorized. U.S. Navy Proficiency Certificates will be accepted to establish eligibility.

Ray Meyers, W6MLZ, was selected as the first recipient of the HALL OF FAME Award and QCWA MEMBER OF THE YEAR Awards were bestowed upon two members: Ed Trombly, W8CAM and M.W. ("Mac") McRae, W9RC.

The 1980 Budget was discussed and approved in the amount of \$50,780.00

The Board moved to amend the By-laws to require that a candidate for the office of President of QCWA must have first served on the Board of Directors. (It was later voted to delay implementation of this amendment until after the 1981 election.)

Ethel Smith, K4LMB
Secretary

MINUTES
SPECIAL MEETING
QUARTER CENTURY WIRELESS ASSOCIATION
MEETING OF THE BOARD OF DIRECTORS

A Special Meeting of the QCWA Board of Directors was conducted by telephone conference call on July 25 for the purpose of considering a delay in the implementation of the amendment to Article VI, Section 2, of the By-laws. This amendment was voted by the Board at the meeting held on April 26, 1980.

Notice of the Special Meeting was given to all Board members by letter from the General Manager dated 14 July, 1980. Those members responding to the call were:

Vice President Hal Sears, W5NC
Secretary Ethel Smith, K4LMB
Treasurer Art Monsees, W4BK
Directors: Gus Gironda, W2JE
Henry Harley, VE3BR
Leo Meyerson, W6GFQ
General Manager Ted Heithecker, W5EJ

Absent were: President Harry Gartsman, W6ATC
Directors: Art Milligan, W8KX
Leland Smith, W5KL **

The meeting was opened by Vice President Sears at 9:07 p.m. He explained the purpose of the meeting and proposed a motion, "to delay implementation of the Board action amending Article VI, Section 2 of the By-laws, regarding candidates eligibility, until after the 1981 election."

The motion was entered by Director Leo Meyerson, W6GFQ and seconded by Director Gus Gironda, W2JE. Discussion by all members present was favorable with the exception of Secretary Ethel Smith, K4LMB who suggested that the matter should be handled as a "Policy Procedure" rather than an amendment to the By-laws.

Five members present then voted in favor of the motion as stated - Chairman Hal Sears abstaining.

The meeting was adjourned at 9:15 p.m.

Ethel Smith, K4LMB
Ethel Smith, K4LMB
Secretary

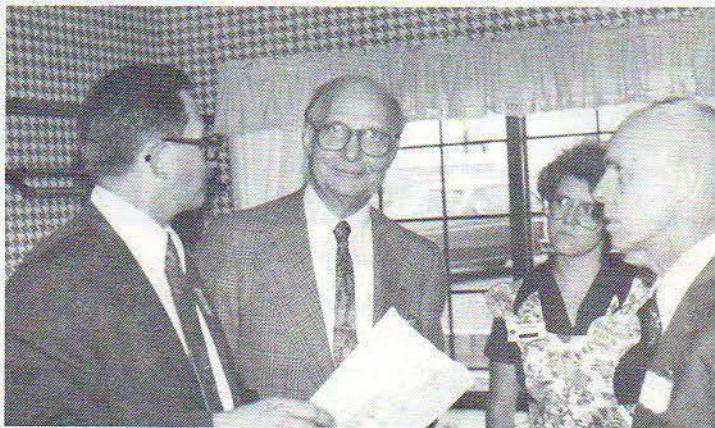
**
W5KL reports that he did not receive the call although he stood by all evening waiting for it.

QCWA DUES MAY BE PAID ON AN ANNUAL, BI-ANNUAL OR TRI-ANNUAL BASIS. THE BOARD OF DIRECTORS TOOK ACTION AT ITS APRIL '80 MEETING TO ADOPT A DUES SCHEDULE TO THAT END. SEE PAGE 68 OF THIS ISSUE OF QCWA NEWS FOR DETAILS.

FORT WAYNE CHAPTER, QCWA, INC.

The Ft. Wayne Chapter met at the Heritage House at Ft. Wayne, May 8, 1980, for its semi-annual get together. Present were 63 members and guests.

After a satisfying dinner the first order of business was election of Officers. Ray Yeranko, W9JOQ was re-elected president for another term. Also re-elected was George Kasdorf, Sr., W9FSA, Secretary/Treasurer. The New Officer is Bob Sanders, W9LKI, Vice President.



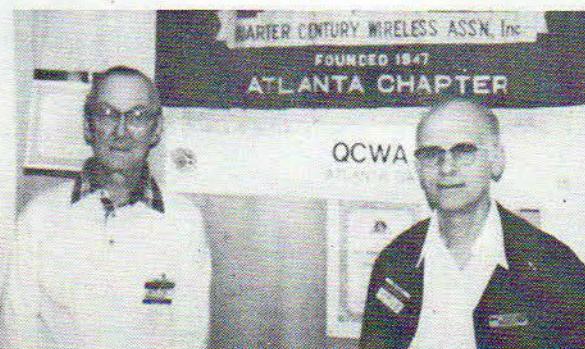
Shown in the picture above, L-R are: W9FSA, Secretary., W9JOQ, President, a waitress and, W9WM, who also spoke to the group about "What QCWA Means to Me."

The evening program was presented by Bill Hull, WD9HII. He is Director of Energy Services for the Indiana and Michigan Electric Company. The major part of the program was a movie and comments on "A Play Half Written," which explained various aspects of nuclear energy. A question & answer session followed.

ATLANTA, GEORGIA, CHAPTER # 49

Atlanta Chapter's second quarter dinner meeting held at the Ansley Mall Morrisons was well attended with 36 present. We were highly honored to have QST Editor/ARRL Gen. Mgr. Dick Baldwin, W1RU as guest speaker along with other special visitors, Harry Dannals, W2HD, ARRL President; Carl Smith, the Vice President and WØBWJ; SE Region Director Frank Butler, W4RH and xYL Jan; SE Region Vice Director Evelyn Gauzens, W4WYR and Carl W4DTJ; Georgia SCM Eddy Kosobucki, W4JNL...a rare collection of ARRL representation making for a most enjoyable dinner meeting for all!

The Chapter manned a QCWA booth and logged interested hams from eleven states, coast to coast. The following Chapter members assisted in manning the booth: W4BIW, Byron; W4BFR Bruce; W4DQT, Bill; K4EZ, Ben; W4JWO, Ed; and K4VN, Wendell



In the picture above, L-R are: Hammond Smith, W4HL and, Wendell Cushing, K4VN - - Picture by Ben Adams, K4EZ! - -

May 21, 1980 was a big night at North Platte, NB..ten members of Nebraska Chapter of QCWA gathered to speak their piece and to be photographed. All are members of NPARC. More than 50 Club members were in attendance. They gathered to honor all old-timers, and specifically to Award the Golden 50-Year Certificate to Les Mills WØERM. Those making the presentation are pictured below, L-R: Front Row:

Charlie, WØEXP; John, WØYYV; Les, WØERM; Don, WØEWC; Bob, WØPRT

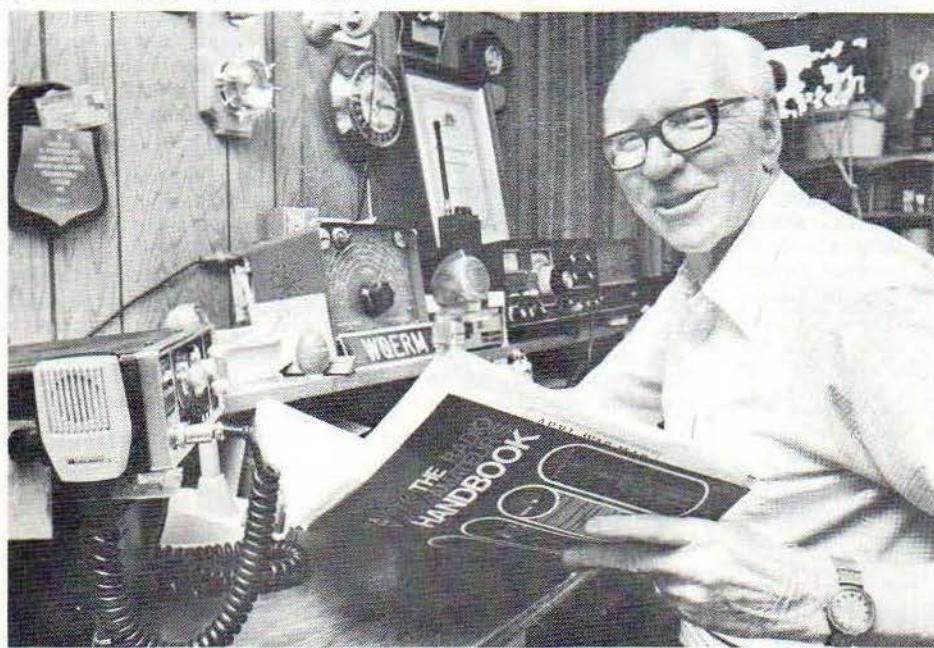
Back Row:

Supy, WØSUP; Don, WØDP; Bill, WØPKT; Bill, WØBJ; Marsh, WØATU.

Pix by Beth McNeal



In the picture below, taken by the North Platte Telegraph, is shown Les Mills, WØERM, at his rig. Les is active in QCWA, in the North Platte ARC, handles a bunch of traffic and works in civil defence work! Our congratulations to Les on a wonderful 51 years in Amateur Radio!



-Bob, WØEUT-

Carl Felt, Jr., N2XJ, has a special request for a friend...

Ivan Tjon, PJ3SF, Oranjestad, has, for a long time tried to get descriptive material on a special type of side-swiper key. He saw the key in 1929—in Surinam, being used by an operator there, who had gotten it from a Pan American Airways operator. Ivan, who is a machinist, wants to get info on the old key, so that he can duplicate it! He has tried everything possible and has now asked Carl to request a bit of help from QCWA Members, some of whom might have knowledge of the old key...if this stikes a cord of memory, won't you please drop word to Headquarters, we'll make certain to get the info to Ivan so that he can contact you direct. If you can, please send a sketch, or drawing or other info so help insuring that what you have information on is what he needs.

Write to: QCWA, Inc.
1409 Cooper Drive
Irving, TX 75061

CHECK YOUR MAILING LABEL
ON THE FRONT OF THIS NEWS
LETTER. SEE SOMETHING
LIKE DEC81...THAT MEANS
YOUR DUES ARE PAID THROUGH
DECEMBER 31, 1981. CHECK
IT OUT, MAKE SURE YOU'RE
IN GOOD STANDING!

Excerpts from Coast Carolinas Chapter July, 1980 Newsletter....

The regular Chapter meeting, April, at Raleigh, so election of Officers.

Bill Finch, W4EHF, President
Bob Johnson, AA4L, Vice Prexy
Carl Pressler, W4LPL, Scy/Trs.

In other activities, the Chapter moved to extend Charter Membership until the end of June. At the time, 39 members of the Chapter were on the roster!

A meeting, schedule for August 17, was too close to the NEWS deadline for inclusion of a report. - Bob, W4OMW -

AUSTIN CHAPTER

Austin Chapter is planning a meeting jointly with Houston & San Antonio, at Schulenberg, September 7. The meeting will be in progress as this is being printed. We know the gang will have a great time...already on the air there is lots of talk about who's going, and what there'll be to eat! We're hoping for some pictures from that event.

SPACEPORT CHAPTER #106

The July meeting of the Spaceport Chapter was a fine turnout presided over by President Walt Todd, W4JXI. Dick MacLean, #40ZC and xYL June, W4PIK, told us of their trip to the Bahamas sailing their own ship. Guy Blencoe, W4HVU, related the saga of his DXpedition to Antigua which was a fine Ham Radio experience. Don McClenon, N4IN, reported on the plans of our Spaceport Chapter luncheon in conjunction with the Platinum Coast Hamfest on September 6, 1980.

-Art, K4DQC-

Tom Kenney, WB6TGD, sent the pix below showing a wooden tower erected on the roof of EL RAY RADIO CLUB in the late 1940's or early 1950's....the club of Raytheon associates, at Waltham, Mass.



Pictured, L-R are: 1) unknown; 2) Brownie, a SWL; 3) Bill Lightfoot, W1PEG; 4) Steve Morris, W1AQE; and 5) Ray Burrows, WA2FLT (ex W1PAW). All were employed at Raytheon.

MEET YOUR NOMINATING COMMITTEE MEMBERS

"I grew up in Minneapolis, MN, where I picked up the call 9APA, in 1923. I held a second-class commercial ticket that enabled me to earn part of my expenses at Carleton College, in Northfield, MN, where I was the operator of the college broadcasting station and for a time the operator of the station at neighboring St. Olaf College. \$2.25 an hour was a good pay scale in those days and helped me build my own rig from a Ford spark-coil through a UV-202 to a UV-203. I received my B. A. degree from Carleton in 1929 and then took my Ph. D. in economics from Johns Hopkins University, graduating in the depression of 1932. By that time amateur radio had become a hobby I could no longer afford. The 203 blew up in 1928 and it took me 30 years before coming back on the air as K9PZD, here in Illinois, in 1958."

"My second go round resulted in the usual activities qualifying me for OOTC, QCWA, DXCC, WAC-YL, WAS and Rag Chewers. I've not been very active but I do operate the rig as time permits. I have been treasurer of the Chicago Chapter of QCWA for the last three years and also treasurer of the QCWA Convention 1979."

I have had a very varied career starting in academic life as a college professor at Ottawa University, Ottawa, KS. continuing with a similar activity at Denver University. I joined the New Deal during the thirties. Following many different assignments in Denver, I became Executive Officer of Price under Ken Galbraith, in Washington. When Congress decided that bureaucrats should have practical business experience, I became General Manager of Howard Aircraft in Illinois. With no postwar future I left the Company to be President of Davidson Manufacturing Company until we sold it to Mergenthaler Linotype. I was assistant to the President of Morton Salt for some years and then in 1963 started on a final career as Treasurer of the architectural firm of Graham, Anderson, Probst and White in Chicago, from which I retired at age 68, in 1976."

In 1979 I was elected for a four year term as a trustee of the Village of Glen Ellyn so that I could worry about the problems of its 25,000 people, attend millions of meetings and get paid \$10 per month, less social security. This all complicates my getting on the air, but the rig still works, I do get on some times on both CW and Phone."

HAROLD W. JOHNSTON, W7PN

Harold (Hal) Johnston, W7PN, was born January 25, 1906, at St. Helena, California. He grew up in Watsonville and in Oakland, and acquired his first Amateur call 6CGL, in 1923. His first transmitter was a Ford Spark Coil, home-brew loose coupler & a piece of galena obtained from the local jeweler made up his first receiver. Hal acquired his commercial license and went to sea in 1924 until 1927. He has worked in broadcast, radio servicing, and a constructor for Sargent Rayment. He received a Civil Service appointment in 1929 with the Department of Commerce, Bureau of Lighthouses Airways Division which later changed to Bureau of Air Commerce and then to the Civil Aeronautics Administration and now to the FAA. Held many positions from senior Operator to Operator in Charge to Maintenance Inspector, Construction Management Engineer. In 1953 Hal transferred to the U. S. Navy and retired in 1961 as Electronics Engineer.

Harold has held various offices in several radio clubs and at present am Secretary/Treasurer of the Island County ARS.



KEN ROWE, K9PZD

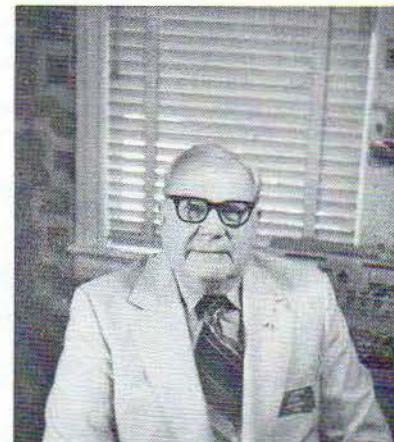
Have been Secretary/Treasurer of the NW Chapter of QCWA for the past fifteen years.

In 1928, Hal met and married Gertrude...they have a son and daughter living in Seattle, three grandchildren and one great-grandchild. He operates both CW and Phone as he has time, being an avid gardener and keeping the larder stocked with produce from the yard.

Hal was unable to supply a picture, stating that at his last sitting, the photographers camera blew up!

Some of the Committee Members are shy, and didn't want to see their name in print. we'll keep working on them, and try to get a story from each one of them printed by the time the winter news is out so that you'll know what a fine group they are!

The work of the Committee will be completed about November 20, when they will submit their slate of candidates for publication in the WINTER QCWA NEWS



ROY L. ALBRIGHT
NSRA (x-W5EYB)

Amateur radio has been more than a hobby for Roy, NSRA, for many years. He began building crystal detector sets in 1920, while living in Cairo, Illinois, but soon graduated to the use of vacuum tubes (WD-11, WD-12, UX-200, UX-201 and then the ubiquitous UX-99 series).

First attempts at Amateur radio were nothing to brag about due to poor CW capability, and necessity to use home brewed transmitt-equipment built from scraps of wire and metals scrounged fm the local garage trash cans. However, with the proverbial Ford spark coil, Leyden jar condensers, and finally a real fine rotary gap, he made a few contacts and had the usual exciting experiences so many enjoyed in those days.

There was no time for Amat eur radio for a youngster working his way through college, so at this time hobbies fell by the wayside...but, once bitten by the bug, the truly interested types, especially the experimentally inclined, can never get fully away from it. Hence, in 1931, when economic conditions dictated a change (that's fancy talk for being laid off) the electrical engineering field lost a promising young man as Roy Albright entered upon what was to become a 30 year span of military life. That 30 years encompassed combat duty in Europe and Korea, and duty stations during peace-time in other countries and cities of the U. S. A.

Throughout his military career Roy was in some phase of Radio and/or electronics as operator, instructor, administrator, engineer or technical advisor. During periods when he was stationed at San Antonio, Texas, he found time to serve the San Antonio Radio Club in various official capacities (even now, he is editor of the clubs newspaper).

In 1969 his services were sought as director of the West Gulf Division of ARRL. He served in that capacity for eight years, during which time he was a member of several Committees, including finance and executive Committees and was Chairman of the International Affairs Committee. Currently he is a member of the Leagues VHF/UHF Advisory Committee.

Always alert to advancements in Amateur Radio, Roy spends a great many hours in experimental work, especially, antennas and enjoys using his home-brewed CW keyboard.

Married for 44 years, the Albright (Roy and Hazel) enjoy

MEET YOUR NOMINATING COMMITTEE MEMBERS

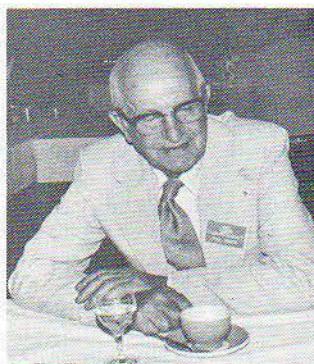
Dr. Samuel Moses, W1ASD. Dr. Moses received his B.A. degree with major in English, from Yale University and his J.D., from the University of Connecticut Law School. He also attended the University of Connecticut Graduate School and studied Management Communications, finishing out the World War II period as an Army Department Senior Instructor in communications.

During the first few postwar years, Dr. Moses was associated with the electronics industry, acting as a Consultant in the development of Communications techniques & equipments.

For several years Dr. Moses has been a member of the evening Division Faculty of the University of Hartford English Department teaching composition in the School of Arts and Sciences, the Ward Technical Institute, and the Division of Continuing Education. Dr. Moses is also adjunct on the faculty of the University of Connecticut where he teaches various law courses, management communications, and serves as thesis advisor. He is a member of the College English Association and the Professional Group on Engineering writing and Speech.

and, on top of that, he has been a full-blooded ham, getting his first receiver (a crystal set) in 1924...after a lot of tribulations, receiving his license in 1927, as the age of 16. Then came the copper tubing coils, xmas tree bulb indicators, dime-store towel rack rods and the 24 jar borax -lead-aluminum slop-jar rectifier. Ham radio went to college with him in 1929...at Yale the dorms had partly DC and partly AC...he got into the DC end and promptly blew all the fuses in the dorm when he plugged in the 210 rig! Antennas were forbidden at the dorm, so his consisted of a wire with a weight, let down from the 4th floor. One night having trouble, he pulled on the antenna, but found it to be stuck, running downstairs he traced the wire into a 2nd floor window, thence down a hall, into a bathroom, where a helpful colleague wound the balance around a toilet. Sam feels now that he should have written an article, after a due amount of investigation, and thus perhaps been included in some antenna handbook!

W1ASD history follows that of most of the active fellows... Service in the '36 flood, and the '38 hurricane... Public Service awards, hundreds of rag-chews, a few pieces of good old antique gear, and a packet of 200 or more letters from fans who were helped by my code-practice transmission in the early 1930's...it seems the educational side of me in ham-radio never did get satisfied...beginning in high-school and still going, and getting the same kick out of it. Especially when students run up to 77 years of age...and now, to help fulfill the Golden Years, I have the warm comrade of my QCWA friends. Ham Radio can never be beat for the best hobby in the world.

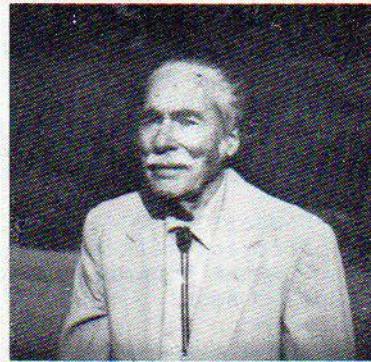


We received a short note from Harry Caldecott, VK2DA, Secy of the Sydney Chapter of QCWA. He had enclosed a group of pictures taken at the 1979 Christmas Party, and we are including here at left a shot of Phil Levenspiel's smile...VK2TX!

Word has come that VK2ADE, Frank Leverrier, passed away following a serious operation. Frank was well known across the world, and will be missed by many who have talked with him many times.

The Sydney Chapter has been working to increase membership and has been getting results. It was reported that VK2BEK, Erik Bierre, celebrated his 80th birthday recently. Erik is a good CW operator and when he gets tired, his Kitten's take over the CW duties on the keyboard keyer!

-VK2DA-



Orel D. Orvis, W2MAB..... Orel was born Jan. 28, 1902 and became active in Radio as a true pioneer. First associated with the South Side High School Radio Club at Newark, NJ, in 1916.... His first rig, a Ford coil followed by a 1" coil. He used the call 'OD'.

In 1919 Orel took a Radio Course at the 86th Street YMCA, in NYC, obtaining a 1st grade commercial. He began a long career with a birth on the SS Lake Liill-

ian (KXUI)...later serving on the SS Borad, Colthrops, Agwimars and others. In 1922, station WOR was founded. Orel served as the original engineer.

In 1957, Orel joined QCWA and OOTC. He continued his work until 1967, when he retired from the Electronic Components division, Bendix Corporation as Sr. Methods Engineer, in Design and application of high-frequency induction equipment, specializing in use of hysteresis and eddy currents for heat treatment of metals, silver brazing & soldering..

In 1977 he became a 'Spark-Gap Pioneer' in SOWP. He has served as President of the Sidney, New York ARC; as President of the Central New York Chapter, QCWA (2 terms); as Director of the American Red Cross, Deposit, NY; as Master of F & AM Lodge 396, in New York; Member AASR, 32 degree; Holds the QCWA Golden 50 and the QCWA Century Club Certificates.

The Nominating Committee consists of seven members. Not all were able to provide a picture and biographical material... We plan on providing that material for you in the next issue of QCWA NEWS, which will have their final report! The Complete list of members named to the Committee is:

Lew Sieck, K4NE, Chairman
Roy Albright, N5RA
Earl Burdette, W6YYV
Hal Johnson, W7PN
Sam Moses, W1ASD
Orel Orvis, W2MAB
Ken Rowe, K9PZD

The most recently Chartered Chapter of QCWA, #129 is the PELICAN CHAPTER, located in the Tampa, St. Petersburg area of Florida. The Charter, issued July 8, 1980, came as a result of an application signed by 18 members. Officers elected are:

Lew Sieck, K4NE, President
Dave Davis, W4GO, Vice President
Jack Mandel, W4PFW, Secretary

It's a pretty good bet, with fellows like these, that the Chapter will be a real "growth industry" And, just to get started off on the right foot... the Chapter will sponsor the 1981 QCWA QSO PARTY!

QCWA STATISTICS

QCWA active membership (members in good standing) stands at 8,800 on September 1, 1980. The roster lists 9119 members, which includes all members who became delinquent on December 31, 1979. (these to be deleted from the FALL NEWS mailing).

The most recent member to join QCWA is:

J. A. Holladay, W6EJJ (14,380)
La Canada, California

QCWA NAT'L CONVENTION

TIME & PLACE:

The 1980 Nat'l Convention, hosted by Citrus Chapter, will be held here in Orlando October 31, November 1 & 2, 1980, at the Howard Johnson Hotel at Florida Center. Florida Center is located about 10 miles south of the City at the intersection of I4 and the Florida Turnpike. Leave I-4 or the Turnpike at this intersection on State Road 435 to Kirkman Road. Continue about a half mile down Kirkman, and there is the Hotel just off to the right. Parking is free and there is ample space!

CONVENTION PLANNING AND ADMINISTRATION

The Florida Council of QCWA Chapters, with a representative from each of the 16 Chapter groups in the state, will be instrumental in arranging the program material, etc. The next meeting of the Council and the Officer of Citrus will be held at the Hotel September 13, 1980, at noon!

Responsible Parties:

Chalmers Stromberg, W4WLX, General Convention Chairman
6312 Wynglow Lane, Orlando, FL 32808 (305-295-2150)

Lewis W. Sieck, K4NE, Florida Council Chairman
12270 4th Street East, Treasure Island, FL 33706 (813-360-7198)

Keith Street, G3DKS, Chairman of Citrus Chapter
1399 Freeport Drive, Deltona, FL 32725 (305-574-2414)

Ray Reisinger, K4KHP, Vice Chairman, Citrus & Publicity & Adv. Chairman
706 G, South Conway Road, Orlando, FL 32807 (305-898-0201)

Chalmers Stromberg, W4WLX, Convention Ticket Chairman
c/o WDBO-TV, P. O. BOX 1833, Orlando, FL 32802 (305-843-0006)

TICKETS AND RESERVATIONS

Pre-registration, Banquet and Luncheon tickets will be handled by Chalmers Stromberg, Convention ticket Chairman - address & phone number above. Make checks payable to the "CITRUS CHAPTER, QCWA". Room reservations to be made directly to HOWARD JOHNSON HOTEL, Florida Center, 5723 Caravan Ct., Orlando, FL 32805, Phone 305-351-3333. It is toll-free from out of state if you call 800-327-1364. Rooms were quoted to us at \$34 & \$44, the Banquet at \$10, and the Saturday Luncheon at \$7. Registration at the door of the Convention will be \$3.50 for the men and \$2.50 for the Ladies. All of these quotes cover tax and gratuities. We urge you to get your tickets and reservations right now!!! don't wait another minute!

LUNCHEON AND BANQUET

The Saturday Luncheon will be hosted by Suwannee Chapter. The speaker will be W. J. (Bill) Halligan, of Hallicrafters fame. The price is \$7, with a limited number of reservations available. So get your reservation to the ticket Chairman early!

The Saturday evening Banquet will feature a distinguished speaker, and will be MC'd by Convention Chairman, Chalmers Stromberg, W4WLX. We will probably be hearing from our HQ and National Officers at this time. The price is \$10, with a limited number of reservations available - so, get in your applications for space right away. There will be Distinguished Members Awards and Special Guests!

SPEAKERS:

It's early to report on all of our speakers. However, we are pleased to announce that Amory "Bud" Waite, W2ZK, of Venice, FL, a real old-timer, and a member of several South Florida Chapters. Bud accompanied Admiral Byrd on 11 Antarctic and 12 Arctic research expeditions as radio engineer and operator. Not only does Bud have beautiful slides and movies of these expeditions but he is writing a book about his experiences.

Bud will give his lecture and movies at the "Chapter Forum" on Saturday Morning, 10 AM.

FOR THE LADIES:

(and men, time permitting) Buses will be available at the hotel for transportation to the airport, Disney World, Sea World - and all the many attractions of Central Florida. We will have a big "Get Acquainted, Halloween Cocktail Party" at 4:30 PM, Friday Afternoon, October 31st. A trip to the outstanding Malls in Greater Orlando area is planned. Citrus ladies will be on the floor to answer questions and to aid with the tours. Also, a tour will be available to the WDBO Radio and Channel 6 TV Studios. Last and not least, Al Canning, WB4HAK, will exhibit his renowned collection of Antique Radio Equipment.... We regret cancellation of the Luau at Seaworld - the package deal was just too expensive. It will still be available to our well-heeled members on an individual basis-- you will have to make your own reservations with SEA-WORLD 48 hours in advance, and arrange your own transportation with the hotel. If you have your own car, Seaworld is only a few miles from the hotel.

MISCELLANEOUS:

A pay-as-you-go Shloshpitality Room will be set up for those with dry throats. Bring your QSL card for the QSL and MESSAGE board in the Lobby. Your tickets will have a number on them for prizes. Amateur Radio Supply of Orlando will have an exhibit and a prize. Other companies are expected to have exhibits and prizes too. Join us on Oct. 31, and make this the biggest and best Convention in QCWA History!

GERMAN CHAPTER

The German Chapter QCWA met Sunday, June 8, 1980, at the occasion of the German DIG - group, in Hildesheim.

Attending were 24 QCWA members with 14 xYLs and 5 guests with their xYLs. Hans, DL1YA, presented the program consisting of a slide/talk covering the life of Jean, LX1JW, followed by additional slide pictures of a number of old amateur radio stations! They are shown below.



Hans DL1YA + XYL
James DL3DX
Joh DL7PH + XYL
Fritz DL3EO + XYL
Heinz DL1YK + XYL
Paul DL1ES
Fritz DL6CA
Karl D72NH
Hans DL6KQ
Hans DL2BM
Ernst DL9JZ
Erich DL1PM
Lilgar DLGAK

Albert DL9AR
Paul DJ1IK + XYL
Dave DAPEE + XYL
Otto DJ1TC + XYL + Globis!
Doban DL1TE + XYL
Gerd DL1JK
Hans, DJ2uu + XYL + SWL Jürgen
Karl DJ2Bo
Georg DJ2FY
Gertje DL3BE
Hans DL1AQ -
Hans DL3MT + XYL
Karl DL9XW

ON THE AIR QCWA SCHEDULED REPORTED

<u>Chapter-Location</u>	<u>Day</u>	<u>Time</u>	<u>NCS</u>	<u>FREQ</u>	
4 NW CHAPTER	SUN	0830		3655	
	SUN	1200		3955	
6	SUN	0900	W8CWY	63/03	
	SUN	0800	W6INH	3917	
7 SO CAL	SUN	0900	W6FQ	3917	
	SUN	1100	K6BA	3695	
11 NO CAL	SUN	0930	W6BYS	25/85	
	WED	0900			
12 SE FLA	SUN	0800		3892	
	THU	2000	W5CIX	3876	
16 ARIZONA	SUN	1030		3917	
	SAT	0930		3920	
27 HOUSTON	SUN	0730	W5CJZ	3835	
	SUN	0930	K4VN	3830	
41 DALLAS	SAT	0930	W4PI	7290	
	THU	1900	G3DKS	99/39	
43 TULSA	SAT	1300Z	K4VN	3830	
	SUN	0800	W5CNO	3835	
45 CITRUS	SAT	1000		3985	
	SUN	1300		3905	
49 ATLANTA	SAT	0900	W5AA	3830	
	SUN	0900	W5AA	3830	
54 TYLER	SAT	0930		3940	
	SUN	0900	W5AA	3830	
55 WISCONSIN	SAT	0930		3773	
	SUN	1300		7090	
58 COLORADO	SAT	1000		3917	
	SUN	1300	W2OJW	3917	
62 SUWANNEE	SAT	1000		W2SF	3917
	SUN	1300			
63 CENTRAL OKLA	SAT	0900		3903	
	SUN	1300		3903	
73 SOUTHERN ONT.	SAT	0900		3645	
	SUN	1300		01/61	
75 CEN. CAL COAST	SAT	1000		16/76	
	SUN	1300		28/88	
77 NO. NJ	SAT	1000		14295	
	SUN	1300		3915	
81 LICQCWA	SAT	1000		7240	
	SUN	1300	W5MD	3935	
84 FLORALA	SAT	1000		3903	
	SUN	1300		3903	
87 EVERGREEN	SAT	1000		3645	
	SUN	1300		01/61	
89 PALMETTO	SAT	1000		16/76	
	SUN	1300		28/88	
90 RAZORBACK	SAT	1000		14295	
	SUN	1300	W5MYZ	3915	
107 CENTRAL FLA	SAT	1000		7240	
	SUN	1300	W5MD	3935	
109 BATON ROUGE	SAT	1000		3903	
	SUN	1300		3903	
112 YANKEE	SAT	1000		3645	
	SUN	1300		01/61	
116 CENT VA	SAT	1000		16/76	
	SUN	1300		28/88	
118 COASTAL CAROLINA	SAT	1000		14295	
	SUN	1300	W4PEI/W4PI	7035	
120 QCWW	SAT	1000		7035	
	SUN	1300	W4PEI/W4PI	7247	

CHAPTERS ARE URGED TO SEND CORRECTIONS AND ADDITIONS TO THIS LIST OF ON-THE-AIR MEETINGS. EVERY EFFORT IS MADE TO KEEP IT UP TO DATE!

PRE-REGISTRATION FORM -- QCWA NATIONAL CONVENTION, 1980

Mail to: Chalmers Stromberg, W4WLX, Ticket Chairman
c/o WDBO-TV, P. O. Box 1833, Orlando, FL 32802

Fee: For men, \$3.50; for Women, \$2.50;

Dear Chalmers: Please pre-register me and guests, as listed below, for the 1980 QCWA Convention, at Orlando!

Name _____ Call _____ Amount _____

Address _____

Name _____ Call _____ Amount _____

Address _____

We will need _____ Saturday Luncheon tickets @ \$7.00 each

We will need _____ Saturday Eve Banquet tickets @ \$10.00 each

TOTAL

1980

S M T W T F S	S M T W T F S	S M T W T F S
JAN	MAY	SEPT
1 2 3 4 5 6 7	1 2 3 4 5 6 7	1 2 3 4 5 6 7
8 9 10 11 12	8 9 10 11 12	7 8 9 10 11 12 13
13 14 15 16 17 18 19	11 12 13 14 15 16 17	14 15 16 17 18 19 20
20 21 22 23 24 25 26	18 19 20 21 22 23 24	21 22 23 24 25 26 27
27 28 29 30 31	25 26 27 28 29 30 31	28 29 30
FEB	JUNE	OCT
1 2 3 4 5 6 7	1 2 3 4 5 6 7	1 2 3 4 5 6 7
8 9 10 11 12 13 14	8 9 10 11 12 13 14	5 6 7 8 9 10 11
15 16 17 18 19 20 21	15 16 17 18 19 20 21	12 13 14 15 16 17 18
17 18 19 20 21 22 23	22 23 24 25 26 27 28	19 20 21 22 23 24 25
24 25 26 27 28 29	29 30	26 27 28 29 30 31
MAR	JULY	NOV
1 2 3 4 5 6 7	1 2 3 4 5 6 7	1 2 3 4 5 6 7
8 9 10 11 12 13 14	8 9 10 11 12 13 14	2 3 4 5 6 7 8
15 16 17 18 19 20 21	13 14 15 16 17 18 19	9 10 11 12 13 14 15
22 23 24 25 26 27 28	20 21 22 23 24 25 26	16 17 18 19 20 21 22
29 30 31	27 28 29 30 31	23 24 25 26 27 28 29
APR	AUG	DEC
1 2 3 4 5 6 7	1 2 3 4 5 6 7	1 2 3 4 5 6 7
8 9 10 11 12 13 14	8 9 10 11 12 13 14	7 8 9 10 11 12 13
15 16 17 18 19 20 21	10 11 12 13 14 15 16	14 15 16 17 18 19 20
22 23 24 25 26 27 28	17 18 19 20 21 22 23	21 22 23 24 25 26 27
29 30	24 25 26 27 28 29 30	28 29 30 31

Lee de Forest Chapter

On Saturday, August 16, 1980, members of the Lee de Forest Chapter (IOWA) met in a special meeting at the Ramada Inn, in Des Moines, Iowa to take part in the Official Charter presentation & to consider business brought before the members. Thirty-one of the members and guests were present.

The meeting was called to order by Lee Blodgett, WØTGQ. Business matters were handled promptly, a preliminary draft of a Constitution and bylaws was read and approved. Membership voted for a nominal membership fee and other matters were considered.

Following the business meeting, Lee turned the meeting over for the formal Charter presentation ceremony conducted by Ted, W5EJ, General Manager of QCWA, who had been invited to the activities. A fine contingent of Nebraska Chapter members attended the activities, headed by Leo Meyerson, WØGFQ, QCWA National Director. The actual presentation of the Charter, pictured below, was made by Leo Meyerson. Those pictured are, L-R:

Leo Meyerson, WØGFQ, QCWA Director
 Ted Heithecker, W5EJ, QCWA General Manager
 Lee Blodgett, WØTGQ, Chapter President
 Bob Brenneman, WØUQJ, Secretary, Nebraska Chapter, QCWA.



Following formal activities, the meeting was adjourned and given over to fellowship among members and guests as well as making of a group picture of members present at this special meeting.

**Evergreen Chapter**

Evergreen chapter was saddened to report that three members became silent keys during July.

Members of the Chapter have been very active during the Mt. St. Helens volcano episode. Frank Buford, W7ELH, spent many days at various observation locations sending in reports to the state emergency services net. Mace Reed, W7GUJ, was sending in seismograph reports to the same net. Although Bob, W7BMK, is located about 290 miles from the mountain, and received one inch of ashfall, it looks as if they will be living with the thing for many years to come. Bob reports that the uncertainty of when the next big blow will occur keeps a fellow on his toes! -Bob, W7BMK-

NORTHWEST CHAPTER NEWS

It was on May 18, 1980, that our Mt. St. Helens volcano in southwest Washington, snowcapped and peaceful for 123 years belched forth a replica of an atomic explosion, a mushroom cloud, 60,000 feet into the sky. The terrific blast sent heavy, black, opaque, clouds of ash and debris eastward, leaving behind destruction and loss of life--two hams were among the casualties. Members of our Chapter have been involved, before and after the eruption.

On June 14, our annual meeting was held at Issaquah, Washington, with the business meeting involving announcement of newly elected officers for the coming year. Ray Stekly, W7GRM, took over as our new Chairman. Cal Morgan, W7SFT, is our new Vice-Chairman. Ray appointed George, W7IC, as Membership Chairman; Warren, W7JY, as Curator; Dewey, W7HF Historian; Beth, W7NJS, National Representative. W7AGV is to be NCS on the 8:30AM CW net; W7MCW, NCS on the noonday phone net; W7AXI, with W7OS alternate NCS for the 3PM fone net. A written constitution was adopted. We still charge no dues. After some photography in the afternoon by Rusty W7ACP, 68 members and guests enjoyed a dinner followed by presentation of the Golden Anniversary Award to Jerry, KA7APK, and of the Meritorious Award to Harry, W7MCW. W7OI James Crutchfield, of the University of Washington, gave a very interesting description, with slides, of the country and conditions in Ireland, where he and his wife had spent a great part of two years.

In July, John, W7AOB, presented Tex, W7AHK, with his Golden Award at a gathering at John's ranch. Hal, W7PN, made a special trip from Whidby Island to bring it.

Robert E. Garrow, K7YUA, was presented with two certificates at the Centralia dinner. both the Golden Anniversary and the 50 years Continuously Licensed Certificates.

Members of our Chapter attended the July 25-27th ARRL Convention in Seattle where they enjoyed fellowship with members and where the QCWA room was open to all. Displays of antique equipment could be seen there, handled by Warren Green, W7JY, Curator, representing the AWA, and Jim Barrows W7BCT, representing the Seattle Collectors Club.

Hal Johnson, W7PN, our Secretary, is serving as a member of this years National Nominating Committee. -Beth, W7NJS-

NORTHERN LIGHTS CHAPTER

The Chapter's annual meeting will be held September 27, in Anchorage, with election of Officers for the next year as prime business.

Roy Woodin, KL7IHH, Chapter President is on vacation in New Jersey and the East, and will return home August 23rd. Hal Devoe, KL7MF and Chuck, Sappah, KL7PJ will be operating mobile in Denmark, Sweden, Norway, Holland and the British Isles, including Ireland, Scotland and England from September 17 to October 14, and will attend the FOC Convention in England during their visit. They will be using a Ten-Tec Delta rig!

QCWA Net reception on 15 M and now on 20 M has been lousy here in KL7 this summer, but we will still keep trying.

With Rain most of the summer, many of the locals have been developing gills and webbed feet. May all turn into fish-ducks. We could use some of that South 48 sun & give your some rain for it!

- Mac, KL7AVX -

LONG ISLAND CHAPTER

The Long Island Chapter meeting, last for the summer, was scheduled for the Coral House, June 12. It is planned to have the August picnic reinstated this summer too!

The program was arranged by Nat Pfeffer, W2AIM & featured a NASA film entitled "The Universe."

Chapter on-the-air meetings are held Sundays 11:30 AM, local time, 3917 kHz, with W2SF as NCS!

BATON ROUGE CHAPTER

The Baton Rouge Chapter of the Quarter Century Wireless Association held its annual picnic on Saturday, May 31, at Forest Park. Sixty-one members, XYLs and Guests attended... Pork & Sausage Jambalaya was served along with a salad and French Bread. The Jambalaya was prepared by the 3-brother team who had won state honors in past cook-offs. Needless to day, everyone ate until they could hold no more. Many second and third trippers were noted, headed to and from the huge black-iron pot that held the delicious food. Members brought their own cold drinks and lawn chairs to enjoy the shaded area of the Park. Talk-in was via the Baton Rouge ARC 19/79 machine, and much good-natured kidding was heard such as "You can find that QCWA bunch in the Park right under the GERITOL sign!" This event is a yearly occurrence & seems to be a very popular thing!



Pictured above is the whole group. The pix is a bit dark but we're hoping it comes out alright.

Below is a bunch just plain taking it easy!

AKRON OHIO CHAPTER

The Akron Chapter summer quarterly dinner-meeting was held July 24, at Anthe's on Manchester Road in Akron, with 45 members, xylos and guests in attendance. The program for the evening was presented by Gene Weigand, WA8MFZ, showing a film concerning tornado disasters and discussing local skywarn activity.

Highlights of the meeting was presentation by President Chet, K8GRO of letters of Commendation from Akron Chapter of QCWA to Amateur Gene Weigand, WA8MFZ and to Joseph Zemlanski, WA8JVI for their long and dedicated service in the local Skywarn activity and other public service. Joe was unable to attend the meeting. Vice President Hal, W8LZE accepted the Award for Joe and presented it to him the next day.

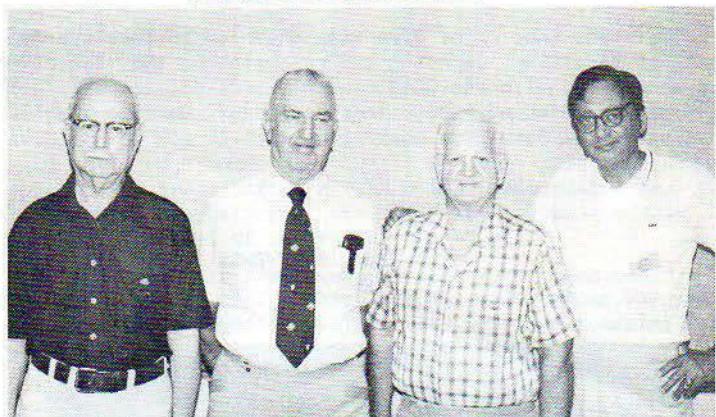
A moment of silence was observed in memory of Roy Geis, WA8ZFC.

New members of the Chapter are Frank Caulkins, W8NYP and Joe Crawford, AE8T. Rex Brown, W8LUT has been awarded his 50-Year Golden Certificate.

The Akron Chapter manned a QCWA booth at the Goodyear Hamfest in June, creating much interest and several potential new members. The next Chapter meeting is scheduled for October 23, 7PM at Anthe's.

--ED, K8EMI--

The QCWA letters of commendation were sent to headquarters and we appreciate receiving them...this is a fine gesture and is recommended as a practice for all Chapters! - Ed -

CENTRAL FLORIDA CHAPTER

Above are the Central Florida Chapter Officers who were inaugurated May 10, 1980. L-R, Ray Andrews, W4FEI, V. Pres; Al Streiling, W4OFT, Treasurer; Jim Gundry, W4JM, President and, Norm Darch, W2HGV Secretary.

The advertisement pictured below appeared in Broadcasting Yearbook for 1935. The picture showing the famous tower and extensive water-cooling sprays as they existed at that timeof even greater interest is the advertising message! Read it carefully! A one-station network (and it really was that). This advertising message spelled the death knell of 500,000 watt operation. It was political dynamite. It was impossible for a political office-holder to support such an operation when besieged by the combined anger of the many small broadcasters...and so ended a saga.

Crosley performed a fine and adventurous experiment. 500 kW at a time when 50 kW was considered super-power. It is a shame it could not have continued longer to provide more information on "blanketing", co & adjacent frequency interference matters and other information which would help make better allocation of facilities at this time.

-W5EJ

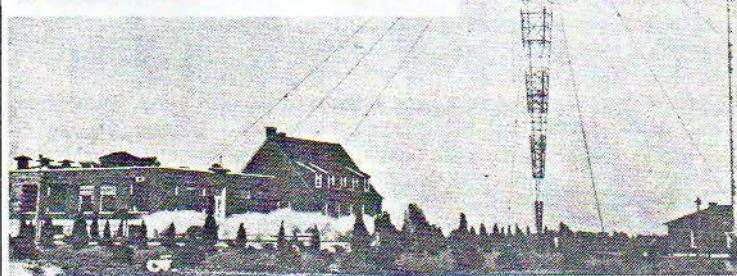
reprinted from Broadcasting Yearbook for 1935.

WLW
"The Nation's Station"
500,000
Watts

Most Powerful in the World

At all hours WLW has such a great portion of the national radio audience that no national radio campaign is complete without it. By itself WLW offers a vast radio audience in the center of America's best market.

THE CROSLEY RADIO CORPORATION
POWL CROSLEY, Jr., President
CINCINNATI



"DLL'S CORNER, W6DLL"

gives us pause to reflect.

I am quite sure that W3KW has understated his role in the affair.

BASIC TELEPHONE SWITCHING SYSTEMS, David Talley, W2PF, Hayden Book Co., N. Y., 150 pp., plus glossary and index, many illust.

This author's book on the use of carrier systems in telephony was reviewed in an earlier issue of QCWA NEWS. The present book is a comprehensive account of the arrangement and use of automatic switching gear in telephone systems.

As did the previous book, this one demonstrates rather conclusively that Mr. Talley possesses a very complete and detailed knowledge of the working of telephone systems. To comprehend the nature of the book, it is probably necessary to accept the idea that telephone systems are considerably more complex than most people---even those with engineering experience in associated fields--would expect. The number of variations and options that are employed is very large.

Mr. Talley has approached his subject in his usual, well organized and concise manner. As I noted in the previous review, the author has an unusual ability to present his material in what must be close to ideal sequence. His descriptions, illustrations, and functional explanations of each of the components are grouped in such a manner that you could not apply description or function to the wrong illustration if you tried. The writing is simple and direct. Mr. Talley had no need for the use of "filler" words, and there aren't any. The level of the book is just short of engineering level. In accordance with the statements in the authors preface, this was the intent. Virtually no mathematics is required for reading and comprehending.

The arrangement of the book is in ten chapters. Each of the chapters is divided into between five and ten sections. The sectioning of the chapters is not arbitrary. Where the technical material called for a separation, Mr. Talley has made one. Each chapter concludes with a set of review questions whereby the reader may pace his understanding of the material.

It would be unfair to the book not to make a further comment on the illustrations. A typical chapter may run as high as 15 illustrations. Both line drawing and photographs are used. The line drawings are directly pertinent to the material at hand and unnecessary elements have been omitted for easier comprehension. The photography ranges from very good to excellent. Every one is a professional photograph; not a snapshot in the bunch. In the very few cases where the photographs present a moderate difficulty to interpret, the fault must surely be laid to the limited contrast and multi-lane nature of the equipment itself.

Admittedly, the book is not for every reader, but if you can generate an interest in the intricacies of telephony, this is an excellent place to start. I should think that it would make an ideal preparatory guide for anyone considering a career in this field.

I do not think that the scope of the book can be explained by any method other than listing the chapter headings:

1. The growth of Telephony
2. Telephone System Concepts
3. Conveying Switching Information
4. Signalling Methods
5. Switching Network Fundamentals
6. Central Office Power
7. Step-by-Step Dial System
8. Crossbar and Other Common-Control Switching Systems
9. Operations of the No. 5 Crossbar Systems
10. Electronic Switching Systems.

-73, Bud, W6DLL-

LONG ISLAND CHAPTER - QUARTER CENTURY WIRELESS ASSOCIATION, INC.

The Long Island Chapter held its June 12th dinner at the Coral House, Baldwin, LI, and some 49 fine people were present despite a price increase dictated by you know what...so, what's new?

The Happy Hour was fine, as usual, and the program was arranged by Nat Pfeffer, W2AIM - a sound/color film from NASA entitled "The Universe." It was a fascinating and spectacular presentation of the origin and eventual destruction of the Universe, according to the most widely accepted theories of today.

Several business items were presented to membership. Two new members were present, the Chapter treasury is in good shape, as managed by W2HVD, and several amendments were approved.

For the October 10th meeting, Andy Bartilucci, W2NKC, has fortunately obtained Dr. Elvera Richardson, Professor of Pharmacology at Saint John's University, as our guest speaker. Doctor Richardson will talk on "Medical Quackery and Over the Counter Drugs."

With a smorgasboard dinner meeting of gigahertz, Geritol and Graham Crackers, it should be a delight for any QCWA'er with fifty years before the hand pump. A large turnout is expected!

- Bob Scruggs, W2FRX -

Delaware Valley Chapter

The Delaware Valley Chapter held its summer meeting Saturday June 14, at Williamson Restaurant in Horsham, PA. We had 49 members and guests present which is not bad for summer-time with members away on vacation. Chairman C. A. Beeson, W3EY appointed a nominating committee for selecting the Office for the next two years as follows: John B. Power, W2AXU; Harry B. Stein, W3CL and George Hautenschild, W3KD. The Committee will report on their work at the September 27th meeting scheduled for the same location.

After an excellent dinner, our program Chm., Sidney Deitz, W2FDE, presented the speaker for the evening...Christian G. Schiotz, Communications Analyst for Merrill Lynch, of New York City. It is not uncommon for him to work all states in one day via their 67000 miles of AT & T's long-lines. Chris is very active with the Amateur Satellite group, and he had many slides on construction of the birds as well as a good number on the launches. His program was outstanding and appreciated by all.



Shown above are, L-R, A. G. Wentzel, W2HX; Christian Schiotz K2PGB; C. A. Beeson, W3EY and Sidney Deitz, W2FDE...Sid has been doing an outstanding job with speakers he has been getting, such as the cable inspector for US Steel who brought a sample of guyline cable 4" in diameter...let me say that if you can get either of these men, you'll have a good program.

-BB, W2HS-

Foundation For Amateur Radio, Inc.

August 14, 1980

Washington, D.C.

For the Scholarship Committee
from
Hugh A. Turnbull W3ABC
6903 Rhode Island Avenue
College Park, MD. 20740

PRESS RELEASE

The FOUNDATION FOR AMATEUR RADIO announces the 1980 winners of the seven scholarships which it administers.

- The John W. Gore Memorial Scholarship (\$900)
Darryl F. Mihalek, WB4JZT - Charleston, S.C.
- The Richard G. Chichester Memorial Scholarship (\$900)
Katherine Hevener, WB8TDA - Franklin, W.Va.
- The QCWA Silent Key Memorial Scholarship (\$900)
Maureen Porter, KA0BSR - Denver, Colorado
- The Radio Club of America, Inc. Scholarship (\$500)
Brian D. Miller, KA0DGT - Englewood, Colorado
- The Edmund B. Redington Memorial Scholarship (\$500)
Gregory Polanchyck, N3GP - Frackville, Pa.
- The Edwin S. Van Deusen Memorial Scholarship (\$350)
Nicholas A. Ferro, Jr., WA2SFS - Lake Placid N.Y.
- The Young Ladies Radio League (YRL) Scholarship (\$300)
Ann Waines, KA8CSM - Shelby, Ohio

These scholarships were open to all radio amateurs holding at least an FCC General Class License or equivalent. This year's applications were received from 31 states and Denmark. The FOUNDATION is a non-profit organization representing fifty-one clubs in Maryland, the District of Columbia and Northern Virginia. It is devoted exclusively to promoting the interest of amateur radio and to the scientific, literary and educational pursuits that advance the purposes of the Amateur Radio Service.

Information regarding the scholarships to be awarded next year will appear in the May 1981 issues of the major amateur radio publications.

EASTERN NEW YORK CHAPTER No. 95

The Fifth Annual Chapter Dinner Meeting will be held Saturday, October 18, 1980, at Veeder's Restaurant - Albany-Schenectady Road (Route 5). A Buffet style dinner will be served at 7PM.. A good-fellowship hour begins at 6PM.

Reservations can be obtained by calling George Fuller, W2BSH...it is an open meeting, all are welcome. The Speaker will be Mr. Larry Hart, author & Historian for Schenectady City & County..

Election of Officers is scheduled and, the Honorable Samuel S. Stratton, the New York 28th District Congressman has indicated that he will stop in to greet those in attendance. - George, W2BSH -

The Lee de Forest Chapter of QCWA will man a booth at the Cedar Valley

The Lee De Forest Chapter of QCWA will man a booth at the October 5, 1980 ham fest - scheduled for Hawkeye Downs, we urge QCWA members in Iowa to attend...



Write CVARC, PO Box 994, Cedar Rapids, IA 52406.

Recipient of the QCWA Scholarship Award, Maureen Porter, KA0BSR, of Denver, was announced by the Foundation for Amateur Radio, in its August 14, 1980 release, printed at left.

The QCWA Scholarship Fund, established at the Summer Meeting, in 1977, makes it possible to help qualified students in their quest for an education. The fund has grown slowly, with about 2500 dollars in escrow, gifts made by QCWA members, friends, and memorials. The scholarship is paid from the QCWA general funds, as a budgeted item, until such time as the income from the escrow account becomes sufficient.

We can all be proud of our part in the work leading to the Award. The cost of completing a College education has increased so rapidly that many students will, without help, be priced entirely out of the market. If you have given to the Fund, thank you! If not, why not make a gift now?

The QCWA Board of Directors, its Officers and members want to express their appreciation to the Foundation for Amateur Radio for it's part in bringing the program to a successful conclusion for 1980. Long hours are spent studying the applications, and making the final decision leading to the Award...

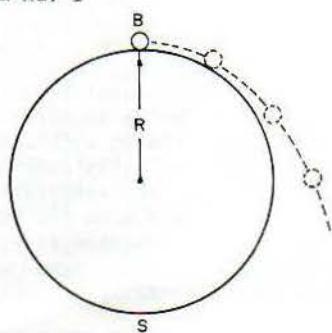
THANK YOU, F.A.R.



Shown above, Mrs. Florence McRae, Widow of the late "Mac" McRae, W9RC, receiving the QCWA Member of the Year Award, for 1979. Mac was one of two members voted the Award for their contributions to Amateur Radio and to QCWA. The Award was given by Paul Crum, W9LC, Chicago Area Chapter President.

NEW PROBLEMS

Problem No. 1



A small bead (B) is balanced on top of a smooth sphere (S). A slight disturbance causes the bead to start rolling down the surface of the sphere.

Find: The point, with respect to radius (R), at which the bead leaves the surface of the sphere!

Send your Solution to:

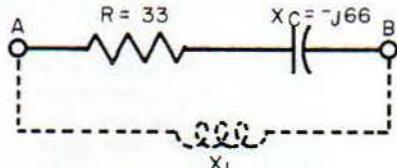
Anthony J. Mony, K4LD
6392 Highway 5
Douglasville, GA 30135

In the diagram below, assume an impedance consisting of a resistor and capacitor in series. The impedance at the terminals A & B will measure to be $33 - j66$ ohms.

Place an inductor across terminals A & B so that the circuit is resonant.

Find: The value of inductive reactance, in ohms for X_L to make the circuit resonant.

Determine the impedance at terminals A-B when resonance is achieved!



Problem No. 2

Send your answers to W5EJ
1409 Cooper Drive
Irving, TX 75061

Problems for the FUNTEST page are sure welcome. If you have some really good ones, send them along. Please provide the work leading to a correct answer..

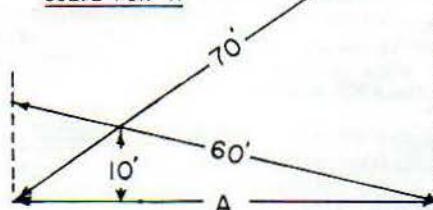
We're not smart enough to work all of them, and we're not gonna publish any that might not have a rational answer!

THE PROBLEMS THIS TIME ARE FIRST RATE.
WE GUARANTEE THAT YOU'LL DO QUITE CONSIDERABLE HEADSCRATCHING TO GET 'EM!

QCWA FUNTEST PAGE

PROBLEM NO. 3
DIMENSIONS IN FEET

SOLVE FOR "A"



In the diagram above, two painters who were working in an alley went to lunch leaving their ladders leaning as shown above. Your problem:

Find the width of the alley (A).

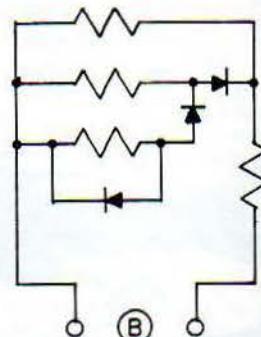
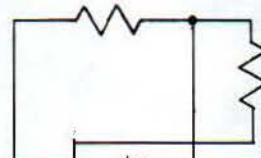
Send your solutions to:

Frank Wanja, WS1S
804 Shady Lane
Dallas, TX 75208

Problem No. 4

From Ted Koranye, W2SFW, comes a note to say, "When 97% of the answers are correct it's time to tighten the screws a bit and provide more challenge."

He may have battened down the hatches. In the black boxes below, "the resistance of each box is measured with an ohmmeter....reversing the leads gives a second set of values. If we assume 'ideal' diodes and 7-ohm resistors ... what are the two values of resistance for Box A and Box B?



Send your answers to:

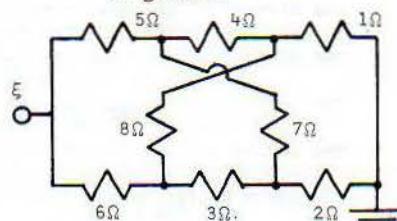
Ted Koranye, W2SFW
Knight Rd, R.D. #2
Vestal, NY 13850

Robert Gordon, W1KUL, who supplied the Summer News problem on capacitors that we mangled, sent in a summary of solutions received:

20 solved the problem
16 solved the problem
that had been intended
6 made mistakes

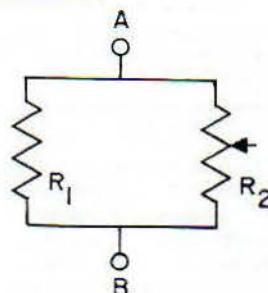
Bob has given us a new problem that is tough, but it can be done:

Prob. #5--Find the resistance from ξ to ground!



Send your answer to Bob, if you supply an SASE he will return a copy of his solution. Robert Gordon, W1KUL
Cote Road, RFD 1
Monson, MA 01057

PROBLEM No. 6



Problem: Describe a method to determine the value of R_1 & R_2 without disconnecting any of the wires.

R_1 & R_2 can be any resistance except zero or infinity.

Send your solution to:

Alex H. Hilliard, K4SP
2902 Greenridge Road
Orange Park, FL 32073

Svend Gormsen, W4SZ asked that we describe the way to solve the triangle problem, Page 48, Summer News. We had solved it here, and our work agreed with Svends solution:

In the figure (Page 48) let the area of triangle ABC = X. Draw line AR; then Triangle APR = 2BPR! Triangle ABQ = $X/3$! Triangle ARQ then is $X/3 - 3$!
Triangle CAR = 2QAR = $2X/3 - 6$! and, Triangle CQB = $2X/3$ and triangle CRB = $2X/3 - 2X/3 - 6 = 6$! Triangle CPB is equal to $6 + 1 = 7$ and Triangle ABC is then equal to $7 \times 3 = 21$ units!

This was a fine problem in reasoning. No formula was necessary except for the area of a triangle $A = BH/2$! W5EJ

QCWW CHAPTER #120

Quarter Century Wireless Women Chapter #120 is now 119 members strong. This is quite a different Chapter in that our members are worldwide. Thus we do not have local meetings. Our meetings are conducted through our "on the air" net. We meet on 14.295 each Tuesday at 1900 hours UT, and all QCWA members are welcome. Why don't you join us?

Our other means of communications is through our news letter. We have just held a contest to choose a name - our news letter will now be known as....

"SILVER SPARKS"

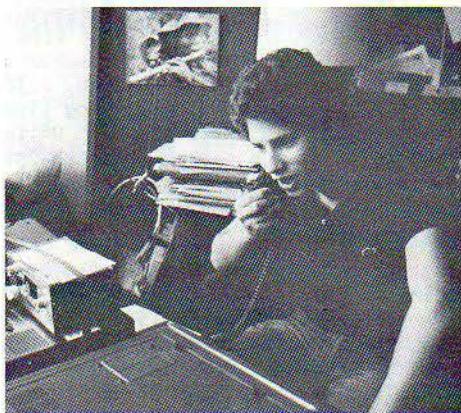
We also have a certificate that is issued for working 20 QCWW members. For further information contact our Certificate Custodian, Esther Given W6BDE at 117 La Granada, Moss Beach, Calif. 94038.

All QCWA members are welcome to join our Chapter - just contact Secretary, Onie Woodward, W1ZEN at 14 Emmett St., Marlboro, MA 01752.

Because we are worldwide & seldom have the opportunity to meet, we're planning a QCWN Breakfast get-together at the National QCWA Convention in Orlando... If you would like to join us at our breakfast you are more than welcome... Look for announcement at the Convention Headquarters Hotel & get in touch with Blanche Randles, W4GXZ, for reservations. We welcome y'all!

-Blanche, W4GXZ-

AMATEUR RADIO is alive & well, thank you! Shown here is Spencer Krull, age 15, who lives in the heart of Manhattan! Spence holds the call-sign KA2HIZ issued this year....Advanced grade, no less! He will be eligible to join the ranks of QCWA in the year 2005.



Spence carries a full curriculum at high school, with excellent grades. In addition to radio, Spence maintains a healthy seasonal interest in the major sports of Basketball, baseball and football, in that order!

-Joe, WSIII-

EDITORS NOTE: Joe has the reputation of always having a good mixed group story on tap, and beyond that, the soul of an Artist. We're blessed that young HAMS such as Spence will be honoring our and making their own traditions in the year 2005!

ANSWERS TO SUMMER FUNTEST PROBLEMS

CALL	RESISTORS	TRIANGLE	FORCES	POLE	TENT
ANSWER -	3.68	21	229# 157 ^v	GAINED	65.56
W5SE			229 157		
K4EK			229 157		65.56
W5TVU			229 157		65.56
W7MME			229 157		65.56
W7VMF			229 157 GAIN		65.56
W2CU			229 157		65.56
W3YX	3.68		229 22.9	GAINED	65.56
W6WL			229 218		65.56
W5ADU			229 157		65.56
KB8JU			229 157	GAINED	65.56
W2SLF			229 218		65.6
WØBCT			229 218		65.56
W2WAM			229 22.9		65.56
N2BC					65.56
W7EFS				GAINED*	
W2OUX			229 218		65.56
WA2PAT			229 203		
W5CWE			350.9 212		
WØQIH			229 218		65.56
WGMJR			229 142		65.56
K4NE			229 157	DAPPED	66.6
W7QR			229 157		65.56
WØIB					65.56
K6MO			229 218	GAINED	65.56
W4AWY	3.68				
W2BDE			229 218		65.56
W5DW	3.68		229 157	GAINED	65.56
W6CU			229 157		65.56
W2CSN			229 157		65.56
W5LKQ				FRAMED	
W8DX	3.68				
W5FD			229 157		65.56
W6JMA			229 142		87.09
W5NXD	3.68		228 157	GAINED	65.56
W4SZ	3.68	1095	229 157		65.56
W1KUL			229 157		65.56
N5BC			226 158		
W3VDL					
W2QFC				GAINED	
W5PC(Clum sum)				GAINED	
W5UQZ			229 157		65.56
W5DS	3.68				
K2ZTQ	3.68				
N5EN	3.68				
W9GYP			229 157		65.56
K4OJ	3.68		229 218	DADOED	65.56
W4WS			225 157		
K2DUX					150
W3WU			229 157		65.56
WA6LDW					65.53
K4DC			229 157		65.56
W4YOK			139		
W9NZF	3.68		229 157	GAINED	
W8SM	3.68	90.9	229 157		65.56
W8MBB			501 158		65.56
W3DR	3.68		229 157		65.56

*We received a nice note from Dick Fox, W7EFS, concerning the gained pole. Dick says "I was once a lineman for the City, Not Wichita, But in Denver. Started with Western Union in the 20's then Pacific Telephone & Telegraph, then for the Mountain States Telephone & Telegraph and later the City of Denver, in 1931..... the pole in your illustration was also 'roofed'....there are two types of roofs, the one shown was, of course, 'peaked.' The other type was one diagonal cut.... The purpose being to eliminate as much as possible the weathering of pole tops..

Some trivia....A country boy, looking for a job, says to the foreman:

'How about a job.' The foreman asked, 'Are you a lineman?'
The country boy replies 'I Clum Sum.'

"DLL'S CORNER, W6DLL"

Some of our QCWA members have brought distinction to our organization by authoring books. From time to time, I have the privilege of reviewing some of these. This issue of the column is concerned totally with books written by QCWA Members.

William Gerlach, W6BG, has written a short biography relative to the telegraphic aspects of our art. Robert J. Gleason, W3KW, turned out ICEBOUND in the SIBERIAN ARCTIC, which name itself should indicate the high adventure (thoroughly factual) that it relates. The third book is David Telle, W2PF, 's BASIC TELEPHONE SWITCHING SYSTEMS.

NOSTALGIC REMINISCENCES of a TELEGRAPH OPERATOR, William E. Gerlach, W6BG, ex 6GE, W6QQS, Vantage Press, New York, 76 pp., illust., \$4.95

We are sometimes so close to history that we are unaware that the parade is still moving. How many times has each of us thought, "I'll never forget the detail of this." -and yet we do forget. Who hasn't said, "if I'd only taken a picture that day."

Our radio art has developed primarily from the work of Heinrich Hertz, but we must also realize that it descended in part from the work of Samuel F. B. Morse. This of course, makes Gerlach's book pertinent to us.

The parade continues and as the newer floats and bands are ever more glamorous, we tend to lose the continuity. Not too much is left of our past: either record, artifact or personnel. This fact together with the direct and unassuming method in which Bim's story is told gives an extraordinary importance to Mr. Gerlach's book. This importance is not readily apparent. The fact is, that this careful documentation of one aspect of electronic communication is, in its area, a statement of our heritage. The author's nickname, Bim, arises from sloppy sending of Bill in American Morse.

Bim has an oddly engaging way of writing in pseudo-third person. One reads primarily in the third person but there is a continual haunting knowledge that the author himself is experiencing these things. Bim's writing technique gives also us an almost x-ray view of the character of the man himself. By using third person, he can, quite pardonably, set forth character traits which he could not do if first person were employed. Modesty would prohibit it.

Do not search this book for the heroics of communications True there have been an appreciable number of such occasions chronicalled elsewhere, but the facts of life are that for every crisis, daily life requires that thousands of words of routine press and a myriad of figures must move over the wires. Bim and his ilk moved them. Likewise thousands of railroad orders had to precede the trains of another age. There is little doubt that the safety of railroad passengers was dependent upon the telegraphers even as today our safety depends upon air traffic controllers. Unfortunately a man pounding away on a typewriter to a blistering series of clicks from a telegraph sounder does not seem to deliver the drama as well as a camera shot of an air controller with radar and associated gadgetry.

Do not mistake my comments by reading from them that Bim's life and career were dull or uninteresting. To Bim, the wonder of communicating over long distances by means of a wire was never lost. Although in his words themselves, telegraphy was routine, you will quite easily read between the lines that it was not. He was a master of his craft and proud of it. Adventure he experience also. He was at work in San Francisco April 18, 1906 when the earthquake struck. He was also at Yellowstone August 17, 1959, to witness a second.

One of the things which beguiled Bim (me too) was the use of so-called commercial codes in telegraphy for the purpose of reducing the number of words required to convey a given amount of information. Bim explains some of these in some detail showing how error detecting and error proofing can be

built in. There is also discussed a clever numerical system wherein, for example, the figures 118 would indicate to a shipmaster that he should call at five ports enroute: Honolulu, Yokahama, Kobe, Manila and Hong Kong. This choice is out of 37 possibilities for the three digits. Bim also gives a brief description of the origin and use of Phillips code which enabled operators to blast away at better than fifty words per minute. Bim's own contributions to enciphering were the Gerlach's Code Adapter Tables and the editing of one edition of Phillips.

The book contains information on telegraph operating records which should prove interesting and which are probably not available elsewhere.

The book was not stocked in the bookstores which I tried, but I mailed my check to the publisher and back came the book. Perhaps after you have read the book, you would like to drop a line to this grand Senior Operator (7051 Colton Blvd., Piedmont, CA 94611).

ICEBOUND IN THE SIBERIAN ARCTIC, Robert J. Gleason, W3KW, Alaska Northwest Publishing Co., Anchorage, Alaska, 167 pp., Profusely illust., maps, appendix, bibliography.

This book's subtitle, the Story of the Last Cruise of the Fur Schooner Nanuk, has to be one of the major understatements of quite a few years. The author was radio officer of the Nanuk, one of two vessels jointly employed in the fur trade between Siberia and the United States. The other vessel was also a schooner, the Elisif.

The fur trade with the strangely cooperative Russians (circa 1929) was straightforward. However, the Arctic Ocean, with its nearly 100% icepack was almost vindictively hostile. The narrative style of the book is almost an informal diary. Robert Gleason was there and you will not doubt it.

If I had to categorize the book in fewest words, I would use courage, perserverance, humanity. An attempted air-shuttle between Teller, Alaska and the icebound Nanuk to remove some of the personnel and part of a valuable cargo is one of continuing battle against the rarely absent fog of the Bering Strait. To read of the repeated attempts to get through the fog to the vessel (approx. 550 miles) you might believe that these pilots had never seen a proper landing strip. With only their eyes and dubious altimeters to guide them, they landed ski-planes in the most difficult places.

One of the airplanes with two men aboard crashed. The search for the downed airmen involved airplanes, dog sleds and people from three nations (Russia, Canada and the United States). The tragic resolution of the search, the exhausting continued search to locate and recover the bodies and the concern and dignity with which the bodies were treated would make more than a story in themselves.

At the risk of almost paraphrasing my last paragraph, I could say that the reading of this book is to open a window on a part of our lives which may no longer exist. One can not avoid asking, "Were these men that courageous and resourceful? Were they so greatly concerned with the lives of other men that they would risk their own lives landing inadequate aircraft in torturous, icy valleys? Would they endure the hardships and assume the added risks necessary for recovery and removal of the bodies when they knew, for certain, that the men were already dead?" Mr. Gleason assures us that they did. From a thorough reading of the book I am quite willing to believe that no exaggeration is included.

If these men of another time did this, we are tempted to further inquire, "Would we? Would I?" If we cannot answer in the affirmative, we must ask then, "Why not?" Is it that some of our courage has been drained away during the intervening half century? Is it that we have lost--perhaps to material things--some of the strength and character that made us great? To me, the answer is not certain. The book

"DLL'S CORNER, W6DLL"

gives us pause to reflect.

I am quite sure that W3KW has understated his role in the affair.

BASIC TELEPHONE SWITCHING SYSTEMS, David Talley, W2PF, Hayden Book Co., N. Y., 150 pp., plus glossary and index, many illust.

This author's book on the use of carrier systems in telephony was reviewed in an earlier issue of QCWA NEWS. The present book is a comprehensive account of the arrangement and use of automatic switching gear in telephone systems.

As did the previous book, this one demonstrates rather conclusively that Mr. Talley possesses a very complete and detailed knowledge of the working of telephone systems. To comprehend the nature of the book, it is probably necessary to accept the idea that telephone systems are considerably more complex than most people---even those with engineering experience in associated fields--would expect. The number of variations and options that are employed is very large.

Mr. Talley has approached his subject in his usual, well organized and concise manner. As I noted in the previous review, the author has an unusual ability to present his material in what must be close to ideal sequence. His descriptions, illustrations, and functional explanations of each of the components are grouped in such a manner that you could not apply description or function to the wrong illustration if you tried. The writing is simple and direct. Mr. Talley had no need for the use of "filler" words, and there aren't any. The level of the book is just short of engineering level. In accordance with the statements in the authors preface, this was the intent. Virtually no mathematics is required for reading and comprehending.

The arrangement of the book is in ten chapters. Each of the chapters is divided into between five and ten sections. The sectioning of the chapters is not arbitrary. Where the technical material called for a separation, Mr. Talley has made one. Each chapter concludes with a set of review questions whereby the reader may pace his understanding of the material.

It would be unfair to the book not to make a further comment on the illustrations. A typical chapter may run as high as 15 illustrations. Both line drawing and photographs are used. The line drawings are directly pertinent to the material at hand and unnecessary elements have been omitted for easier comprehension. The photography ranges from very good to excellent. Every one is a professional photograph; not a snapshot in the bunch. In the very few cases where the photographs present a moderate difficulty to interpret, the fault must surely be laid to the limited contrast and multi-lane nature of the equipment itself.

Admittedly, the book is not for every reader, but if you can generate an interest in the intricacies of telephony, this is an excellent place to start. I should think that it would make an ideal preparatory guide for anyone considering a career in this field.

I do not think that the scope of the book can be explained by any method other than listing the chapter headings:

1. The growth of Telephony
2. Telephone System Concepts
3. Conveying Switching Information
4. Signalling Methods
5. Switching Network Fundamentals
6. Central Office Power
7. Step-by-Step Dial System
8. Crossbar and Other Common-Control Switching Systems
9. Operations of the No. 5 Crossbar Systems
10. Electronic Switching Systems.

--73, Bud, W6DLL-

LONG ISLAND CHAPTER - QUARTER CENTURY WIRELESS ASSOCIATION, INC.

The Long Island Chapter held its June 12th dinner at the Coral House, Baldwin, LI, and some 49 fine people were present despite a price increase dictated by you know what...so, what's new?

The Happy Hour was fine, as usual, and the program was arranged by Nat Pfeffer, W2AIM - a sound/color film from NASA entitled "The Universe." It was a fascinating and spectacular presentation of the origin and eventual destruction of the Universe, according to the most widely accepted theories of today.

Several business items were presented to membership. Two new members were present, the Chapter treasury is in good shape, as managed by W2HVD, and several amendments were approved.

For the October 10th meeting, Andy Bartilucci, W2NKC, has fortunately obtained Dr. Elvera Richardson, Professor of Pharmacology at Saint John's University, as our guest speaker. Doctor Richardson will talk on "Medical Quackery and Over the Counter Drugs."

With a smorgasboard dinner meeting of gigahertz, Geritol and Graham Crackers, it should be a delight for any QCWA'er with fifty years before the hand pump. A large turnout is expected!

- Bob Scruggs, W2FRX -

Delaware Valley Chapter

The Delaware Valley Chapter held its summer meeting Saturday June 14, at Williamson Restaurant in Horsham, PA. We had 49 members and guests present which is not bad for summer-time with members away on vacation. Chairman C. A. Beeson, W3EY appointed a nominating committee for selecting the Office for the next two years as follows: John B. Power, W2AXU; Harry B. Stein, W3CL and George Hautenschild, W3KD. The Committee will report on their work at the September 27th meeting scheduled for the same location.

After an excellent dinner, our program Chm., Sidney Deitz, W2FDE, presented the speaker for the evening...Christian G. Schiotz, Communications Analyst for Merrill Lynch, of New York City. It is not uncommon for him to work all states in one day via their 67000 miles of AT & T's long-lines. Chris is very active with the Amateur Satellite group, and he had many slides on construction of the birds as well as a good number on the launches. His program was outstanding and appreciated by all.



Shown above are, L-R, A. G. Wentzel, W2HX; Christian Schiotz K2PGB; C. A. Beeson, W3EY and Sidney Deitz, W2FDE...Sid has been doing an outstanding job with speakers he has been getting, such as the cable inspector for US Steel who brought a sample of guyline cable 4" in diameter...let me say that if you can get either of these men, you'll have a good program.

-BB, W2HS -

CENTRAL CALIFORNIA COAST CHAPTER

QCWA SILENT KEYS

W1OUP	OMAR G. SIMMONDS
K2AT	JOSEPH L. RICHEY
K2HLM	MERWIN A. TODD
W2JN	CHARLES K. ATWATER
W3LM	CHARLES G. YEAGLEY, JR.
K4CEE	CHESTER W. BOLG
W4CU	RALPH J. RENTON
N4CW	CHARLES WHITELEY
K4DZ	RALPH C. HABURTON
W4EKJ	WILLIAM S. HESTON
W4GET	AARON M. GEORGE, JR.
W4GWF	ROBERT M. HOPE
K4HA	WRAY A. GILLETTE
W4UE	ROGER P. GRAY, SR.
K4ZP	J. HAROLD MAC ART
W5UX	R. W. CARR, JR.
W5VJM	RAYMOND T. LOWDER
W5ZC	BERT E. GAMBLE
W6BO	MASON SHAW

W6ONC	WILLIAM RITZI
W6QZQ	HORACE W. BATES
W6RH	RALPH M. HEINTZ
W6UL	JOE M. SIMPKINS
K6UN	WM. S. CLAYPOOL
W6WF	JOHN L. SLATER
W7EGG	DON. C. HAWKINS
W7LJK	ISAAC W. CARSON
WB7VMN	ARTHUR L. DRAKE
W8AZL	KENNETH E. SMITH
W8CAI	JOHN J. MISKOVIC
W8DPU	KEN. B. PECK
K8MK	THURSTON A. JOHNSON
WA8ZFC	ROY J. GEIS
W9LI	JAMES A. TURNER
W9VEZ	JOHN F. DISCH
W9VGE	NORMAN A. HOYM
WØVYX	TOM S. BOYDSTON
VK2ADE	FRANK N. LEVERRIER

CITRUS CHAPTER

Citrus Chapter and the Florida Council of QCWA Chapters has been rather busy firming up details of the Nat'l Convention. The Florida Council will be mailing Pre-program sheets to all secretaries in the state. Citrus will be mailing Convention material and pre-program material to all QCWA members in the state who do not regularly get into our on-the-air nets. Our ticket Chairman reports he is selling three to four ticket groups per day, which means that we are going to have a good turnout for the Convention. We regret the cancellation of the Luau at Sea-world, but it was just too expensive.. see the Convention page for details...

Due to the closing of the Winter Park Sweden House, the next Citrus meeting of September 20, will be held at the Holiday Inn, near Sanford, at the intersection of I-4 and Route 46. With everyone back from vacations, we ought to have a good turnout.

Remember the State of Florida QCWA CW Net on Wednesdays, 1:30PM on 7035. We have many out-of-state checkins--join us!

-Bill, W4PI--
A note from Donald deNeuf, WA1SPM, in which he commented on the "Solar Power Story" and asked if Taroh Yagi was the antenna man...we think not, but aren't absolutely certain.

On Saturday, May 31, the Central CCC, held it's springtime meeting, in Santa Maria. On the same day the Elks held a rodeo and parage...Many members came early and enjoyed the parade before the luncheon meeting. Approximately 44 members & guests attended the luncheon held at the Valley Farmer! Members came from as far as 150 miles both fm the north and south.

All enjoyed an illustrated program by Rockwell, International personnel fm Vandenburg AFB, on the trials & tribulations of the space shuttle. As of the present, the space shuttle is expected in 1984.

Although we have a small chapter in the boondocks, we have 4 husband-wife member teams...Phil & Harriett Amborn, W6PA & N6HA; Mel & Cyn Delauney, W6PIH & W6PHT; Floyd & Bea Eells, W6FNP and W6JXU; and Joh & Roxy Griggs, W6KW & K6ELO.

W6UA -----

COASTAL BEND CHAPTER

Henry Binz, W5HQ, wrote to give us the schedule of the Chapter's on-the-air meeting, as well as other info. There has been a good deal of work by Chapter members to increase membership.... and applications have been coming thru regularly...good work!

Dave Kintzer, W2FC, wrote a short line on the Hebrew sign (Page 9, spring, 1980 QCWA NEWS)...everyone has given us the same answer.. Thanks, Dave!

CITRUS CHAPTER PRESENTS THE 1980 NATIONAL CONVENTION IN ORLANDOADVANCE PROGRAM

Date: October 31, November 1 & 2, 1980

Place: Howard Johnson's Florida Center Hotel, I-4 & Route 435

FRIDAY, October 31, 1980

9:00 AM - Board of Directors Meeting

4:30 PM - Get Acquainted, Halloween Cocktail Party

SATURDAY, November 1, 1980

10:00 AM - Chapter Forum, Including a very special presentation, Antarctic Adventure, by A. H. "Bud" Waite, W2ZK, perhaps the only living person to have a group of islands named in his honor

12:00 N - Luncheon, sponsored by Suwannee Chapter, with W. J. "Bill" Halligan, of Hallicrafters fame.

2:00 PM - General Meeting, President Harry S. Gartsman, W6ATC presiding

7:30 PM - Banquet, Distinguished Members Awards, Special Guests to be announced later

SUNDAY, November 2, 1980

Free for Special Interest Groups, Rag Chewing and recovery!

PRIZES-EXHIBITS-QSL BOARD-LADIES EVENTS- ATTRACTIONS TOURS-CONTINUOUS SHOSPI-TALITY!!!!

QRV! QRV!



Several Yankee Chapter QCWA Members attended a Barnyard Net Luncheon at Pier II, in Portsmouth, NH, on June 14, 1980.

Wes, W4COW, National Activities Manager, presented a QCWA 60-Year Golden Certificate to George Sterling, W1AE - with 68 Year endorsement, (shown at left), and the 50 Year Continuous Certificates, with 58-year endorsements to W1MPP and K4RO, Eunice & Ken Thompson. (Shown immediately below).



We, in Yankee Chapter, are proud of our members who have attained these Certificates, and of our National Activities Manager, Wes, who presented them!

On July 19th, Yankee Chapter was privileged to be the guests of Sam, W1ASD and his gracious wife, Irene, at their home in West Hartford. The day started with a tour of W1AW, in Newington, after which we went back to Sam's "antenna garden." In this setting, with typical Yankee Chapter perfect weather, we ate and drank our way through a delightful afternoon of QCWA Friendship, fun and frolic!

Following this wonderful afternoon, we were entertained by slides from the collection of W2CVF, Ralph's travels to various National QCWA Conventions provided the first, for many of us, opportunity to see pictures of many past & present Officers and Directors. There were 52 members & guests present, and we signed 3 new member to the Chapter. Yankee Chapter is indebted to Sam and Irene for another wonderful get-together!

- Onie, W1ZEN -

Dear QCWA Members,

The QCWA Convention is being held at the Howard Johnson Florida Center Hotel. It is located at Interstate 4 and Kirkman Road in Orlando. The convention rates are: \$34.00 single, \$44.00 double plus \$10.00 each additional occupant. Reservations must include first day charges as deposit, 30 days before the convention.

Please make your reservations early and include first day charges as deposit. Although it is possible to save a couple of dollars by motel shopping, the rates quoted are very decent for this area and members are requested to stay at the hotel if at all possible. It will help us meet our quota to reduce convention costs.

Sincerely,

Chalmers Stromberg

Chalmers Stromberg W4WLX

Convention Chairman

% WDBO-TV

P.O. Box 1833
Orlando, Florida
32802

HOWARD JOHNSON FLORIDA CENTER HOTEL
Interstate 4 & Kirkman Road
Orlando, Florida 32861

Out of State - 800-327-1364
Florida - 305-351-3333

The convention is scheduled for Friday, October 31, Saturday, Nov. 1, and Sunday, November 2, 1981

ALL QCWA MEMBERS ARE WELCOME TO ATTEND THE NATIONAL CONVENTION THAT IS TO BE HELD IN ORLANDO. NOT ONLY WELCOME, BUT YOU ARE URGED TO ATTEND. IF POSSIBLE AT ALL, MAKE PLANS, COME AND TAKE PART. YOU'LL ENJOY IT GREATLY!

DOGWOOD CHAPTER

Excerpts from report on 5th General Annual meeting, June 21, 1980.

35 members signed in at the meeting at Surrey, B. C., Max Green VE7DZ called the meeting to order during which business matters were considered. Following the business meeting, Prexy Green reported on Chapter activities during the year. The report was complete and interesting to all.

Secretary Savage, VE7FB reported that membership totals 107 members. Ernie has spent a long time in the Office & announced, following his report, that he was stepping down in 1981. He will continue to help until a new Secretary can be found to take over the work.

Election of Officers was held under the direction of VE7JT. Those elected are as follows:

Max Green, VE7DZ, President
Art Spence, VE7DKY, Vice Prexy
Ernie Savage, VE7FB, Secretary
Dave Gilmour, VE7YG, Treas.

Directors are: Eddie Edwards, VE7DAR, Truman Lockheed, VE7DKI.

Action to set the time and place for the Sixth General Annual Meeting...The meeting will be on Salt Spring Island. The date will be finalized later, but it will be in June, 1981.

The next Breakfast meeting is scheduled for September 27, at the Calico Inn, Lansdowne Park, Richmond.

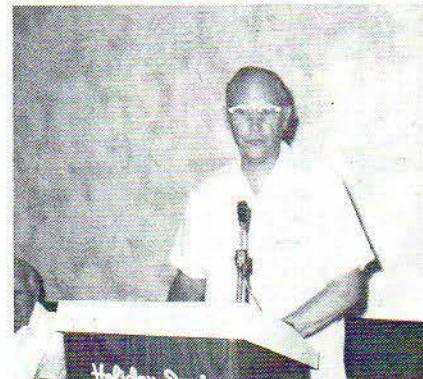
- VE7FB -

Joe Bonnett, W5III, asks that we send a word of thanks to W6FQ and W2SF for their efforts on behalf of Q C W A ... as NCS for the International Net, they certainly give much of their time, and run the chance of high-blood pressure! From we all, Thanks!

SUWANNEE CHAPTER

Had a short note from SUWANNEE reporting that a meeting was held on August 23, 1980, at Silver Springs, FL. 31 were present.

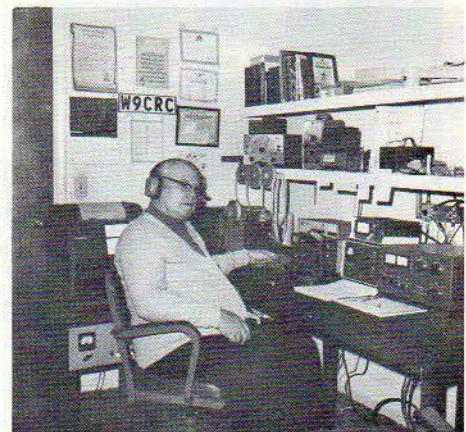
The program featured a talk on antique furniture, given by Frank McCullough, who is pictured below!



- Hal, K4JTJ -

MEMBERS NEWLY ENROLLED IN QCWA

05-12-80	14,142	William Alois Hayes	W2BSP	Hicksville, NY
	14,143	Karl B. Keller	KJ6F	Los Angeles, CA
	14,144	Ray B. Hauke	KA4DEC	Marion, NC
	14,145	Margaret L. Rodenhiser	W1UPK	New Ipswich, NH
05-13-80	14,146	Hershel T. Walton	W5ROH	Corpus Christi, TX
	14,147	Ruth W. Walton	W5TGZ	Corpus Christi, TX
	14,148	Stanton P. Cleary	W7SSQ	Bremerton, WA
	14,149	Richard E. Ahrens	W3WJC	Reading, PA
	14,150	Alton R. McMullen	K4IGI	St. Petersburg, FL
	14,151	Kay E. Fasulkey	W3BBN	Fairfax, VA
05-14-80	14,152	Ed Henderson	N8BOD	Birmingham, MI
	14,153	John D. Earl	W5JLV	Amarillo, TX
05-15-80	14,154	C. Wayne Abern	W6PYM	Forest Ranch, CA
	14,155	R. Paul Stein, Jr	K5AWK	San Antonio, TX
05-16-80	14,156	Earl C. Dunn, Jr	W5LCT	Portland, TX
	14,157	Larry A. Benze	W6EEG	Fairfield, CA
	14,158	Donald Waters Brown	W8AZI	Morrice, MI
	14,159	Kurtz A. Fichthorn	N1AB	Plantsville, CT
	14,160	Bud Hammons	K6EDN	Downey, CA
	14,161	R. Grady Lewis, SR	W5QLD	Corpus Christi, TX
	14,162	R. G. Spindler	N9AM	Howe, IN
	14,163	Wilma F. Wenzel	W5TKA	Deming, NM
	14,164	Harry W. Robinson	W2AZ	Vineland, NJ
05-19-80	14,165	Joseph D. Fearn	K4AYX	Satellite Beach, FL
	14,166	Less Gartshore	VE3LJA	Burlington, ON
	14,167	Arthur G. Reitsch	W7RVQ	Cheney, WA
05-20-80	14,168	Stephen G. Rudin	W1WSN	Stoughton, MA
	14,169	Norman Busk	VE3AGW	Stratford, ON
	14,170	Glenn T. Camp	K6LOP	Long Beach, CA
	14,171	Oscar A. Hauger	W1OK	Palm Coast, FL
	14,172	Robert L. Stark	W4IT	Flagler Beach, FL
	14,173	John M. Seidel	N4AQU	Pinellas Park, FL
	14,174	Walter H. Struze	W8ULH	Lakewood, OH
	14,175	Franz Witthoff	DJ3BN	Essen, FRG
05-21-80	14,176	Ewing John Donaldson	VK2UL	Deewhy, NSW, AUS
05-22-80	14,177	Thomas R. Brown	W6JHQ	Pinon Hills, CA
	14,178	William N. England	W5ARY	Corpus Christi, TX
	14,179	Jack Farrance	N3BZ	Potomac, MD
	14,180	Allen B. Fortenberry	W5EOR	Austin, TX
05-23-80	14,181	Ken Morgan	W5OOR	Hurst, TX
	14,182	Charles Paul Crossno	W5AYA	Dallas, TX
	14,183	Lewis A. Gaul, Jr	K2YHY	Sussex, NJ
	14,184	Jan E. Rehler	W5KNZ	Corpus Christi, TX
	14,185	Roy W. Senker	WB6RDS	Los Molinos, CA
	14,186	Lee Dougan	VE3BZA	Sarnia, ON
05-26-80	14,187	Eugene S. Rubenberg	W2IIX	Pleasantville, NY
	14,188	E. Gill Reed	K5TYV	San Antonio, TX
	14,189	Dick Stetson	K4DHO	Hampton, VA
	14,190	Thomas P. Fitzgibbon	WØFVP	St. Paul, MN
	14,191	John T. Roberts	WD4FVN	Orange, CA
	14,192	Perry F. Williams	W1UED	Unionville, CT
	14,193	Frank A. Lento	W4OVZ	Asheboro, NC
05-28-80	14,194	Tom Gallagher	N6AR	San Francisco, CA
	14,195	Donald W. George	N6CHN	Oakland, CA
	14,196	Joseph A. Taylor	W9JO	Green Bay, WI
	14,197	Michael M. Elliott	W6LUR	San Diego, CA
	14,198	Warren V. Woodruff	W4OPX	Ormond Beach, FL
	14,199	Gus E. Wieland	W7ZRZ	Seattle, WA
	14,200	Albert Henry Jorgensen	W7ZLR	Bend, OR
	14,201	Ione Towner Jorgensen	W7ZLS	Bend, OR
	14,202	William H. Black	K4BSN	Orange Park, FL
05-29-80	14,203	William L. Bentley	VE3DZF	Niagara on the Lake, ONT
05-30-80	14,204	Edward Gilbert	W6GAT	Redding, CA
06-01-80	14,205	James P. Moseby	WB4ZBD	Greenville, NC
	14,206	Arthur J. Roberts	W6UPL	Long Beach, CA
06-04-80	14,207	Everett Beall	K6YHK	Santa Maria, CA
06-05-80	14,208	Donal D. Kavanagh	W4DYJ	New Smyrna Beach, FL
	14,209	Jean-Bernard Wolff	lx1JW	Luxembourg-Golf, LUX
	14,210	Hansgeorg Baehr	DJ2UU	Hanau, FRG
06-06-80	14,211	Bob Witt	K4ESI	Daytona Beach, FL
	14,212	Melvin J. Schutz	W4NXF	Hallandale, FL
	14,213	Frank Salvato, SR	K5BTT	Dallas, TX
06-11-80	14,214	Arnold O. Olsen	WØAAM	Portland, ND
	14,215	William R. Sutton, Jr	KB4NC	Annandale, VA



Pictured above, Russ Rennaker, W9CRC, Kokomo, IN...Russ, an old-timer, went on the air in 1920 with a spark rig, a crystal detector, multi-wire flat-top antenna and on about 200 meters!

Calls held since 1920 are: WØCRC, W9CSC, W2ZMC, W3CRC, W6BTI & W2MYT!

EASTERN NEW YORK CHAPTER No. 95

Several of the Eastern New York Members and Wives were guests of Schenectady Amateur Radio Association at their 50th anniversary dinner dance held at the Willows Country Club, June 20, 1980.

Milton Mead, W2OP, was cited as the 1st President. George L. Fuller, W2BSH was cited as 2nd President and only living participant in the 1929 Storm emergency radio work that initiated the Association. Harry Harvey, W2BKW, Lyle Peer, W2ACB & John Kean, W2BRS were cited as Charter Members. Stanley Zak K2SJO, Hudson Division Director was in attendance & presented the Award!

READING PENNSYLVANIA CHAPTER

The Reading Chapter had its June get together with a breakfast at Arner's Restaurant on June 21. Nineteen members attended during the Saturday morning affair which ran from 8 to 10 AM.

Besides the good fellowship which abounds during our meetings, we made plans for our annual picnic to be held on July 20, 1980.

Enclosed is an application for the Century Club Award, Horace, who was on the air in 1912, using his initials...

Reading sends its best to QCWA!

- Bob, W3GII-

Tex Sloat, W7AHK, has kept us informed of activities around Mt. St. Helens... St. Helens was as beautiful as Fujiyama and to me, more beautiful because from Tex's house, Mt. St. Helens was spectacular!

To those of us far away, the loss is a minor one...but to those who daily saw the beautiful snow-covered mountain it must seem as though an old friend had passed away! Thank you for the pix & descriptive material, Tex.

W5EJ



AKRON OHIO CHAPTER President K8GRO is shown presenting a letter of commendation to Gene Weigant, WA8MFZ, for his leadership and contribution in Amateur Radio's SKYWARN PROGRAM.

Pix by Bob Sheppard, W8CGG.

CENTRAL FLORIDA CHAPTER

Before taking a summer recess (June through August), the membership elected Officers for the 1980-81 term:

Jim Gundry, W4JM, President
Ray Andrews, K4FEI, V. Pres.
Al Streling, W4OFT, Treasurer
Norm Darch, W2HGV, Secretary

We continue to have our luncheon meeting the second Saturday of each month. Excellent guest speakers have helped maintain interest; the XYLs no longer sneak out to the powder room! In addition, chapter members and guest will find us on 7240 every Saturday morning at 10 AM.

Norman Darch, W2HGV-----

CLEVELAND CHAPTER #1

Things are pretty quiet in Cleveland.. summer doldrums there, as they are all across the country...weather too hot--gasoline too expensive and so on. We received a nice letter from Charles F. Lohner, W8RN, Secretary notifying that some pictures would be forthcoming one day soon, but probably not in time for the FALL NEWS.

The Chapter expects to hold its Annual dinner meeting and election on the 1st or 2nd Saturday in November. Time and place will be announced later!

Chuck says that Cleveland is getting a bit of rain and some lightning which sort of messed up his antenna and rig!

-WSEJ-

FROM FEBRUARY, 1946...C. M. Chorpeling Vice President & Director of Research, G. A. Morrell, Chief Engineer, and W. J. Doyle, Sales Manager Manufacturers Division, of the Astatic Corporation, Conneaut, Ohio. attended the mid-winter IRE meeting in New York.

-RADIO-

MEMBERS NEWLY ENROLLED IN QCWA

06-12-80	14,216	John L. LaVanchy	W9LXA	Wadesville, IN
	14,217	Charles A. Master	W8OU	Birmingham, MI
	14,218	Tom Boone	W4COC	Greensboro, NC
	14,219	William G. Buckner	WØVZK	Marshall, MO
	14,220	George A. Bradley	K5IA	Richardson, TX
	14,221	D. S. Dirden	K6OM	Susanville, CA
	14,222	Fred Neuenschwander	W5FQR	Austin, TX
	14,223	Lee Toothman	W5DMK	Shreveport, LA
	14,224	M. B. Patterson	W5CI	Dallas, TX
06-16-80	14,225	Carl W. Reed	WØKZZ	Fargo, ND
	14,226	Sam Moore	W8NCD	Charleston, WV
	14,227	Fred W. Schmidt	WØJULU	Cottage Grove, MN
	14,228	C. Weldon Fields	W4AJT	Merritt Island, FL
	14,229	Lee Roy Allen	W5VJT	Denton, TX
06-17-80	14,230	George A. Horton	W2JGJ	Sidney, NY
	14,231	Sidney J. Chapman	VE7BYX	White Rock, BC
	14,232	William E. Tice	W7EOF	Sumner, WA
06-18-80	14,233	Jose' L. Cordero	WSUEQ	Woodville, TX
	14,234	Gus N. Gikas	WSHRF	San Antonio, TX
	14,235	James J. Savidge	NSAIG	Dallas, TX
	14,236	John M. McMillin, Jr	W50WP	Dallas, TX
	14,237	Bill Glenn	K5DK	Arlington, TX
	14,238	Jim A. Flanders	WØOOG	Plano, TX
	14,239	Michael S. Badolato, Jr	W5MYA	Bedford, TX
	14,240	George H. Handwork,	W5CNI	Dallas, TX
	14,241	Fred M. Hall	WSPWD	Irving, TX
	14,242	Fred Zimring	WSHTR	Dallas, TX
06-19-80	14,243	Karl H. Kanalz	W8TIF	Richardson, TX
	14,244	Howard Hine	W9QWI	Waterloo, IN
	14,245	William T. Parker	W8QZA	San Diego, CA
	14,246	Robert B. Wallace	W5HIA	Corpus Christi, TX
	14,247	Robert M. Summers	KØBF	Kansas City, KS
	14,248	J. Howell Goffe	W4OZZ	Daytona Beach, FL
	14,249	Gilbert Richmond	W4LYN	Smyrna Beach, FL
	14,250	John R. Boyd	W4WG	Vienna, VA
06-20-80	14,251	Marty Levitt	K2BPY	Massapequa, NY
	14,252	Oscar H. Fogle	W5FAF	Kingsville, TX
06-24-80	14,253	Morton L. Ewigel	W9OIY	Columbia City, IN
	14,254	Scott Kostenbauder	W2ANX	Poughquag, NY
	14,255	Robert E. Faulkner	W6RFX	Tracy, CA
	14,256	Donald L. Bassler	WD4KAX	Tequesta, FL
	14,257	Norman Lerch	W9JBF	Wausau, WI
	14,258	Henry Truax	W7BGR	Beaverton, OR
	14,259	James E. Welsh	W9OT	Monroe, WI
06-25-80	14,260	Carl E. Wikstrom	W4JFU	Onancock, VA
06-26-80	14,261	George H. Newman	WSNLR	Baton Rouge, LA
	14,262	Gene A. Godsey	KØEXJ	Topeka, KS
	14,263	Diethelm Burberg	DJ2YE	Mettmann, FRG
06-27-80	14,264	Arthur W. Anderson	W4OZR	Inverness, FL
	14,265	Alvin F. Badgett	W4GDQ	Decatur, GA
	14,266	Christ C. Kovacheff	K9AMC	Lansing, IL
	14,267	Sheemon A. Wolfe	W8WJL	Dayton, OH
	14,268	Edgar O. Hathaway	W4AWQ	Hubert, NC
	14,269	Richard H. MacGuyer	W1ZRQ	Barrington, RI
	14,270	Ed MacDonald	WBØOTA	Parkville, MO
06-30-80	14,271	John P. Topel	W9OO	Northfield, IL
	14,272	Jerry E. Fuller	W6JRY	Forest Ranch, CA
	14,273	Herb Hadley	W3WER	Monocacy Station, PA
07-01-80	14,274	Bill Hawthorne	W4NTV	Ormond Beach, FL
	14,275	John W. Flynn	WØIX	Olathe, KS
07-02-80	14,276	James H. Martin, Jr.	W2VPT	East Brunswick, NJ
	14,277	Earl McQuain	K6IJD	Los Angeles, CA
	14,278	Earl W. Bonner	W6MDD	Barstow, CA
	14,279	Arthur H. Wedde	W4BNM	St Petersburg, FL
07-03-80	14,280	Robert B. Tuttle	W40MQ	Stone Mountain, GA
	14,281	Fred Creed	VE7DZ	Kitchener, ONT
	14,282	Dave A. van Hoof	PAØEE	Hertogenbosch, NETH
07-05-80	14,283	Joseph A. Unterkofler	W3WZX	Torrance, CA
	14,284	Robert J. Fulwiler	WD5CBG	Waco, TX
	14,285	Richard H. Ellis	W5YCK	Fort Davis, TX
07-07-80	14,286	Gudrun Koch	DF5CL	Marktoberdorf, FRG
	14,287	Gerhard F. Hofmann	DL6YK	Pöcking, FRG
	14,288	Robert Bob Gregory	W7IPH	Eagle, ID
	14,289	Robert H. Miller	WD4FSC	Niceville, FL
07-09-80	14,290	John D. Weaver	W7IA	Las Vegas, NV
	14,291	John Tex Kehley	W1ICW	Fairfax, VT

MEMBERS NEWLY ENROLLED IN QCWA

14,292	George M. Guiley	W8LJK
14,293	James A. Hill	VE7CYO
14,294	Stan Cooper	K4DRD
14,295	Karl W. Casey	W7ZCE
14,296	John C. Hill	VE3VH
14,297	George S. Jelinek	W7XW
07-11-80	14,298 Charles Chris Rupp	W4HIY
	14,299 James E. Studebaker	WØGZR
	14,300 John R. Monts	W5AXT
07-15-80	14,301 George M. Erickson	W5POG
	14,302 Ruth B. Erickson,	W5SGR
	14,303 Ronald R. Wood	KØBRO
	14,304 Gordon R. Wright	W1HXE
	14,305 Charles C. Fancher	W5TTF
07-16-80	14,306 Bill Bradley	N7BMX
	14,307 Bill Smith	W5USM
	14,308 Norman R. Bowen	WBØUFG
	14,309 Robert B. DeGraff, Jr	K6KXR
	14,310 Judson W. Mangerson	W9IAL
07-17-80	14,311 Hunter Wood	W4ANK
	14,312 Francis D. Nannell	W4EZE
07-18-80	14,313 W. Carl Morgan	KA5FRZ
07-21-80	14,314 Robert E. Tum Suden	K2EYJ
	14,315 Rose A. Roberts,	K2MBR
07-22-80	14,316 Richard Eric Stein	K2OPJ
07-23-80	14,317 Arthur Sheddan	W4LJL
07-25-80	14,318 George X. Smajstrla	WA5REB
	14,319 Wendell L. Wyly	W5FL
	14,320 Kenneth A. Bishop	W1EWD
07-29-80	14,321 Arthur P. Samuelson,	W6VV
	14,322 William R. Marks,	W1AP
07-30-80	14,323 Louis W. Erath	W5BM
	14,324 Thomas Lee Dorsey	N3BHC
	14,325 Dick Pashley	W8MKD
	14,326 James R. Reinert	WØSMO
	14,327 Wolf Gloxin	DL7GN
	14,328 Heinrich Kostler	OE2KO
08-05-80	14,329 Paul Richter	DL3HD
	14,330 Sidney Wolin	K2LJH
	14,331 O. A. McKeithen	W5GKV
	14,332 Robert P. Gibson	K4CTT
	14,333 Ralph A. Conly	N6VT
08-06-80	14,334 Frederic L. Sansone	W7KLH
	14,335 H. W. Merrill	W5GN
	14,336 Ron Cissell	W7ZGP

NEBRASKA CHAPTER

Nebraska Chapter #23 Summer meeting at Victoria Springs on July 27, was attended by 22 of our members. Our goal of 80 members for 1980 has been exceeded with a total membership of 82, at this time, with more to come.

Art, WØFQB, the "ole Chin wagger" and our original Charter secretary, who has not been able to attend various functions the last few years due to illness, was there visiting with his many friends. Art is now going strong and back on the air participating in message traffic handling and the weekly QCWA Nebraska Chapter Net on 3980, 9AM, each Sat.

Ivan Cidlik, WØWVE, has been appointed treasurer to fill out the unexpired term of long time and original Treasurer, Tom Boydson, WØVYX, now a silent key. Tom was a dear and well loved friend to many and will be missed more than can be said.

A contribution to the QCWA Scholarship Award Fund on the part of the entire Chapter was agreed upon, with details to be furnished at a future date. The next affair will be a QCWA luncheon at the ARRL Midwest Convention in Lincoln, NB on October 11 th. Annual meeting will again be held in Grand Island during November.

A contingent from the Omaha area led by Leo Meyerson WØGFQ, QCWA National Board Director, attended the luncheon meeting of the newly formed Lee de Forest Chapter #125, at Des Moines, August 16th, for formal presentation of Charter to Lee Blodgett, WØTGQ, by QCWA general manager, W5EJ.

-WØUQJ-

Ashland, OH
North Vancouver, BC
San Francisco, CA
Pasco, WA
Columbus, ONT
Vancouver, WA
Madison, AL
Wichita, KS
Dallas, TX
Waco, TX
Waco, TX
Kansas City, MO
Putney, VT
Austin, TX
Port Orchard, WA
Reinbeck, IA
Kittredge, CO
El Monte, CA
Rhineland, WI
North Charleston, SC
Florence, SC
Waco, TX
Floral Park, NY
Browns Mills, NJ
Syosset, NY
Jacksonville, FL
West, TX
Jamul, CA
Middletown, CT
San Francisco, CA
Farmington, CT
Abbeville, LA
Baltimore, MD
Barberton, OH
Earlham, IA
Amoneburg, FRG
Unterfeldstrasse, Austria
Gmund, FRG
Merrick, NY
Weyanoke, LA
Smyrna, TN
Sunnyvale, CA
Las Vegas, NV
Dallas, TX
Olympia, WA

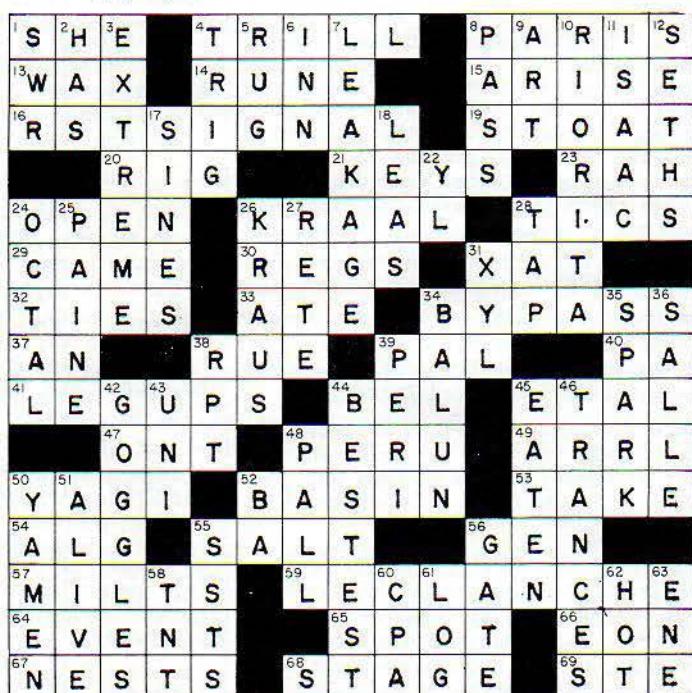
SAROC™
SAROC Annual Prestige Convention Dunes Hotel, Las Vegas, NV., January 1-2-3-4 1981. Cocktail party Friday night to be hosted by HAM RADIO MAGAZINE for exhibitors and SAROC registered guests.. Exhibits and technical sessions Saturday & Sunday. Dunes Hotel Breakfast/Brunch Sat. & Sun., included in SAROC registration. Special SAROC Dunes Hotel room rate \$35.50, includes telephone, plus room tax, call toll-free, 1-800-634-6971. SAROC Advance Registration \$16.00 per person. Send Check or money order to:

SAROC REGISTRATION
P.O. BOX 945
Boulder City, NV 89005

The Radio Club of America has announced the election of the following officers for the year 1916: President, Edwin H. Armstrong; Vice President, T. Johnson, Jr.; Treasurer, Ernest V. Amy; corresponding secretary, David S. Brown; recording secretary, Thomas J. Styles; Director Paul F. Godley, Alfred P. Morgan Harry Sadenwater, Joseph A. Fried and Walter S. Lemon....

From Wireless Age, Feb 1916

A short note from Stu Meyer, W2GHK, he is planning on Gaithersburg, then in 2 weeks DXPO 80 and on top of that he is in charge of the IEEE Vehicular Technology Conference in 1981, in Washington, DC....someone needs to find a few jobs for Stu! (just to keep him busy).



ENCOURAGE YOUR FRIENDS TO JOIN QCWA, OR TO REINSTATE THEIR MEMBERSHIP. WE NEED EVERY ONE OF THEM! SELL QCWA TODAY!!!

WEST VIRGINIA CHAPTER

In the picture above, left-to-right are: June Drummond, W8WX; Vaughn Rice, W8VOI, Robert Hough, W8ESQ; John Freeland, W8GSN; John Davies, W8HZA, President; James Richards, W8OO; Fes Greathouse, W8PZT; Calvin Basham, W8NR, Secretary; Arnold Sayre, W8WVM; Tom Haymond, W8CCN; Albert Hix, W8AH; James McQuean, W8GUL; Laymond Kniley, W8CCR; Tom Sanders, WA2APP; Hough Moon, W8YBQ. Seated, on the left, Lloyd Penrose, WB8UDY, and on the right, James Ford, W8QR.

In the picture at right are: John Davies, W8HZA (58 Years), giving the Golden 50 to Lloyd Penrose, WB8UDY.

F. R. Greathouse W8PZT

F.R. Greathouse

FORT WORTH CHAPTER

Through the efforts of Lee Caudry, N5ASV, our program for August is planned to be a talk and slide presentation by D. K. "Kirby" Sewell, Executive Assistant at Texas Electric Service Company. The talk will deal in great part with the Glen Rose Nuclear Plant and with future energy needs of the community.

The Chapter welcomes new member, A. P. Gandy, W5OYI. Guest are welcome at all Fort Worth Chapter meetings. If you are in the region, call Ray, W5IWE for time and place!

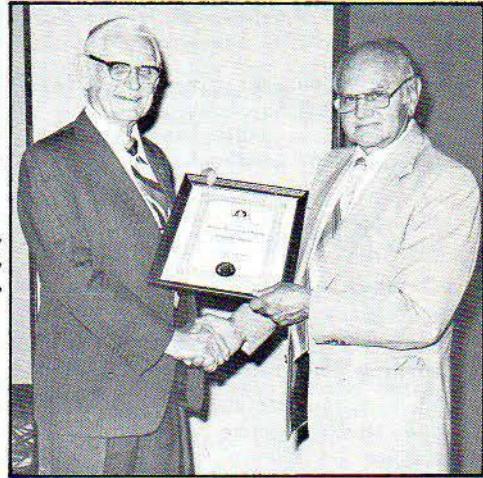
Pictured below, L-R, are: QCWA Prexy, Harry Gartsman, W6ATC, and, Ray Meyers, W6MLZ, on the occasion of presentation of the QCWA 70-Year Pin commemorating 70 years of Amateur operation. Pin No. 1 was issued at this time following submission of an application with proof of operation in 1910! Congratulations are in order to Ray from all of QCWA!



The Chapter's spring meeting, held at the Elks Club, Elkins, WV, with 26 members in attendance, and a good group of XYLs too. President John Davies, W8HZA, brought the meeting to order and presented a Golden Certificate to Lloyd Penrose, WB8UDT, our past President. John was given his 58 yr endorsement for his Golden Certificate...

The Fall meeting was discussed and it was decided to hold the meeting in Charleston sometime in October. The exact date will be set later in the year.

The meeting was then adjourned and a good rag-chew was enjoyed by all. Our old and good friend, Tom Sanders, WA2APP, fm Long Island, NY, made the journey to visit and eat with us...the fourth time he's driven down and we sure enjoy seeing him.

BATON ROUGE CHAPTER

The Baton Rouge Chapter of QCWA held a very interesting luncheon and field trip Saturday, August 16, 1980. Approximately 48 members, XYLs and guests met at the Bear Creek Steak House at Montperier, LA, for lunch and a short business meeting. Following the lunch, the entire group went in a caravan about 12 miles to Grageville, LA, where the US Coast Guard has a LORAN-C station located. A very enjoyable tour through the entire facility was given the group by CWO, Bill Shova, who is CO of the station. The Station is a 700,000 watt job, transmitting on 100 kHz. Power is obtained from 56 separate solid state transmitters whose finals are all placed in parallel, feeding a 700-foot top-loaded tower. The entire station was impressive and everyone enjoyed seeing a really high-power rig. The entire group thanked Mr. Shova for his kindness in conducting the tour.

The Baton Rouge Chapter now has a membership of 99, with hopes of reaching 100 very shortly!

-El Charlton, W5MD-

SAN ANTONIO CHAPTER

The July 26 Chapter picnic was absolutely great....with 50 in attendance. The food was delicious. The site was the Kocurek home...plenty of space, a wonderful place to picnic with the lake nearby and good shady places to sit & visit.. The map showing the location and signs put up made it easy for all to locate the spot. I'm sure I speak for everyone-we would like to go again!

Special thanks to Virginia Essington and all the gals who helped to make it a success! Understand Jimmie Rives & Bill Meiners were the only fishermen! Didn't see what they got!

The Chapter is expecting a good meeting August 23, and the LaGrange get-together, hosted by Houston will be September 7! See you there.

Frances, W5KQG

BARNEY'S ANTIQUE EXCHANGE

Managed by Barney Moffatt
W5CJZ

5714 Trail Meadow Drive, Dallas, TX 75230

Quite a few QCWA Members are interested in the old-time stuff, and have suggested that we have a vehicle to permit QCWA members to swap parts, information, and to search for a special bit or part needed to restore, rebuild or go from scratch on old equipment....This is our answer.

Barney has volunteered to keep records, and to coordinate the whole schmeer. If you need six fahnestack clips, or a rheostate, or what have you, send your requirement to Barney. He'll see that it's published herein, and help in every possible way to see you get those needed items.. A few rules are necessary, more may be needed later:

There is no cost to QCWA members, neither QCWA, its Officers, Board of Directors, manager or its agents assume responsibility for loss or misrepresentation to anyone.

FOR SALE:

MILLEN 90700 VFO (circa Mid 30's)
1936 "RADIO" handbook
12th Edition, RADIO handbook
1948 "Radio" handbook
Ev. G. Taylor, W6DOR/W7BYF
2921 Loyola Drive
Davis, CA 95616

FOR SALE:

Dumont 3" scope, circa 1935, in working condition! Make Offer!
T. J. Kelly, K4IRD
3640 Winview Court
Tucker, GA 30084

WANTED:

National Velvet Vernier dial, Model B or Model BM. Write to:
A. Bell, W3TVA
P. O. Box 562
Deming, NM 88030

WANTED:

5 or 6 Lapp #13981 Insulators!
write to:

W. Winston Hunt, W3KWK
3304 Dorchester Road
Baltimore, MD 21215

FOR SALE:

1 - National HFS, working but W/O power supply
1 - National HRO60, good cdx with A, B, C, D, AC & AD coil sets.

Make Offer to:

W. Winston Hunt, W3KWK
3304 Dorchester Road
Baltimore, MD 21215

WANTED:

Cabinet for KENNEDY - xxx - Type 435 receiver.

Emil H. Patrick, W3MCE
2111 Ridge Road
Ambridge, PA 15003

FOR SALE:

1/4 kW Acme Spark Transformer
Murdock Antenna switch
Edgewise ribbon inductor
Korlowe Radio Cooti key
Breting 12 rceiver
Old tubes (1925-1935)
BC-610, coils & TU's
ART13, with spares
ARC1, 2, 3, 4 & 5
BC348 receivers
PE95 AC power unit, 10 kW
UV712 transformer
Baldwin phones
Bunnell key & sounder set
W. U. straight keys
Jap field receiver
Taylor tubes, various
RCA transmitting tubes
Wire recorder, Brush
Meters, all types
Collins 32V1
Collins 520-2734-10 PTO assmbly
15 amp mercury arcs
Many transmitting variables
RAS, RBA & RBB & pwr supplies
Military split phones (WW-II)
1 & 2 kW plate xfrmrs (Thordarson)
19" relay racks, up to 7'
Transmitting mica condensers
RTTY, Mod 19,-15 reperf

Write to:

Harold R. Reiss, W3HR
RI Box 57B
Golts, MD 21637

FOR SALE:

Battery Radio Collection,
Make Offer!

Emil H. Patrick, W3MCE
2111 Ridge Road
Ambridge, PA 15003

WANTED:

Spy gear, other emorabilia from WW-II, such as maps, personal survival gear, drawings, good equipment, books etc. If you have such material, write to:

John J. D'Luhy, K2EXI
400 East 52nd Street
New York, NY 10022

FOR SALE:

2 - black Kurz-Kasch vernier dials
2 - brown 4" Kurz-Kasch dials
1 - brown 3" Kurz-Kasch dial
2 - National Vel-Ver, Type B dials
one good, one for parts.
2 - National german-silver VV
1 - MAS Co, 4" metal vernier
3 - Pilot verniers
1 - Bemer-Tully metal verniers
1 - Marco black vernier
2 - 3" black, 100-0, dials
2 - 3½" steel dials w/1¼" knobs
1 - AK 3 3/16" brown dial 0-100

Write to: Dan Nealeigh, Jr., W8CSV
12712 State Route 49N
New Weston, OH 45348

FOR SALE: BOOKS!

Admiralty Handbook Wireless Telegraphy, 1925.
Elements of Radio Vols 1 & 2
Marcus-Horton, 1943
Radio Amateur Handbook, 1943
Radio Handbooks
4th Ed. 1937
10th Ed. 1946
Jones Handbook, 1937
Wireless Direction Finding & Directional Reception, R. Keen, 1922
Write to: Rene Levasseur, VE3FQ
415 Coombs Avenue
London, Ont N6G 1J3, Canada

WANTED:

Original or good copy of vacuum tube advertisement from "Radio" circa 1935 through 1940...adv was newspaper whose 'fake' copy was readable and derogatory of the U. S. President! If you have such, write to:

Ed Farley, W6EF
18200 Septo Street
Northridge, CA 91325

CASH FOR:

Pre-1924 QSTs
ARRL Handbooks, Ed. 1, 3, 4 & 5
Jones Handbook, Ed. 1

Ken Miller, K6IR
16904 George Washington Dr.
Rockville, MD 20853 (301-774-7709)

Barney's Antique ExchangeContinued

FOR SALE: (2) Bud, NC-853 neutralizing capacitors, Plate diameter 1 7/8", 1 - 11 uufd. These are feed-through type, mint, at \$10 for the pair.

(2) National NC-600U, neutralizing cap for low power, stand-off or pigtail... 0.5 - 4 uuFd.

(3) Black 4" dials, mint, \$5.00 each!

W. P. Sides, W4AUP
750 W. Fleming Rd
Montgomery, AL 36105

FOR SALE: Several National VV, Type A in good condx, dials w/o edge chips at \$3.50 each.

Several assorted 4" dials, good condx, not matched, \$2.50 each.

(3) Matched 4-inch deals, excellent cd asking \$12 for the three.

Will swap for old tubes, such as UV/UX 201A, UV/UX 199s and so forth, which must be in usable condx.

Leo Gibbs, W8BHT
701 Brookfield Road
Kettering, OH 45429

FOR SALE: 2 Hammarlund neut. caps and 2 disk 1 13/16 dia., max opening 0.75" estimate abt 10 pF capacity. \$2.50 ea

General Radio Frequency Standard, Type 1100 A...6Ft cabinet. \$500.

GR 1231B null detector, with amplifier at \$30; Tektronix Type 517A scope and power supply at \$95; Hallicrafter Rcv Type S40B, \$40.00...Other lab equipment for SASE, inclndg 4 pages of scarce parts. Joe Keese, @8VSK

47270 West Main
Northville, MI 48167
1-313-349-5893

FOR SALE: 2 - 4" dials, 0-100; Freed-Eiseman Model 360 in good condx; a pair of disc type neut caps, for 810's.... make offer!

Les Peterson, W9YCV
9741 West Howard Avenue
Greenfield, WI 53228

WANTED: Old transmitting tubes in any condition. Need:

Taylor T-200, TW-75
TW-150
WE 212D, RCA 802 RK 28A HK-154..write

R. H. Bauer, K5RB
563 Hambrick Road
Dallas, TX 75218

WANTED: Wireless era equipment, particularly Navy/Maritime. Also, WW-II McMurdo-Silver Receivers.

Have early battery radios to trade or will buy!

Charles Hinkel, K4TS
Rte 11, Box 3
41 Ferry Road
Fredericksburg, VA 22401

CENTRAL ILLINOIS CHAPTER

The Central Illinois Chapter of QCWA held its spring meeting on the evening of April 18, 1980, at The Elms, in El Paso, Illinois. In attendance were a total of 72 members, YLs and xYLs, and a good group of guests. Speaker for the evening was Judge Howard Ryan, a Justice of the Supreme Court of Illinois. Judge Ryan spoke on the workings of the Judicial System in the State & did a bit of reminiscing about his tour of duty during WW-II, in the USAF. He was a radio operator in the US bomber ferrying command. A fine dinner, excellent speaker and program and a drawing for prizes completed a very fine meeting.

The Central Illinois Chapter is composed of amateurs from the Peoria-Bloomington-Normal, Pontiac & LaSalle-Peru Oglesby Area. At the present time we have about 60 members. Meetings are held twice a year at various places in the Central area. Wives & guests are welcome!

Officers of the Chapter are:

George Keith, W9QLZ, President
Lawrence Pearsall, WOFDY, V. P.
Jim Umstattd, W9CFV, Secretary

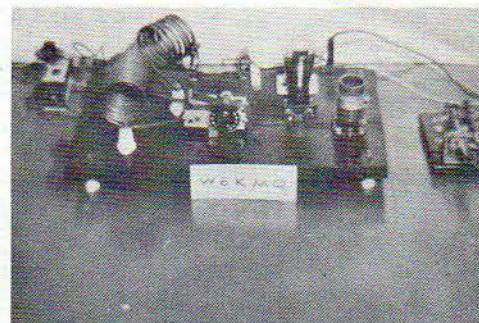
The next Chapter meeting is planned for October, at Klaus Radio, in Peoria with the exact date and time to be announced! John, W9ZEN

Phil Coulter, W7PX, Secy/Treas. of the Treasure State Chapter, No. 104, sent a note to report that a meeting had been held at Fort MacLeod, Alberta, during July. It had not been possible to prepare a report in time for this issue of QCWA NEWS!

DON'T FORGET--NEXT YEAR IS THE BI-ANNUAL QCWA ELECTION TIME. ALL OFFICERS AND DIRECTORS WILL BE ELECTED BY MEMBERSHIP AT LARGE. IF YOU KNOW OF A GOOD CANDIDATE FOR OFFICE, NOMINATE HIM OR HER BY PETITION...ONE HUNDRED SIGNATURES ARE REQUIRED AND IT IS WELL TO GET ABOUT 125 IN CASE SOME ARE NOT UP TO DATE WITH THEIR DUES. DEADLINE FOR SUBMISSION IS FEBRUARY 20, 1981! HELP MAKE CERTAIN THAT MEMBERS HAVE A LARGE SELECTION OF CANDIDATES TO CONSIDER FOR OFFICE.

The photograph below, shows a fine 1934 transmitter, built and used by W6KMU.. Now W7JAC. The TNT oscillator had a maximum output of 8 watts, but a much better tone when operating at 5 watts!

The tube was a Cunningham 245, and the power supply used a BC transformer and supplied a voltage of about 300. The hand key was just to the right of the bug, and is out of the pix. This was strictly an 80-40 meter transmitter... Someone said the note sounded somewhat like someone blowing down a shotgun barrel. The transmitter was used much during the years 1934 and 1935.



- Doc, Elsen, W7JAC, ex W6KMU. -

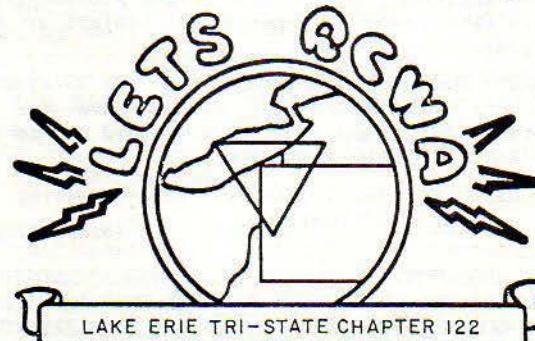
LUBBOCK CHAPTER QCWA

John Estes, W5HB, dropped a very short note to let us know that the sand and the heat was getting to be too much so that he has decided to go to the cool country...moving to Cloudcroft, NM.... John, wanna warn you to watch out for WSALL!

The New Chapter Secretary for Lubbock is E. C. Peel, WSNFO...we'll be looking for some mail from "EC" pretty soon!

LAKE ERIE TRI-STATE CHAPTER #122

Lake Erie Tri-State (LETS) is working hard to qualify for a Chapter banner, and as of June, had 39 members signed up... Paul, W3QPP, is doing a great job in getting information to members, and the material sent out telling of advantages of QCWA Membership was one of the best we've seen.... and, in the midst of all of this, work has gone forward on the design of a Chapter Logo. It is reproduced below, in it's preliminary form. The Logo is symbolic, depicting borders of Ohio, Pennsylvania and New York, all three on the shores of Lake Erie. The small triangle is the "original" Erie Triangle; the large triangle symbolized the Tri-State Bond and approximate geographic Chapter Area. We were not advised as to who was responsible for the outstanding design!



SOUTHEAST FLORIDA CHAPTER

The Chapter held a luncheon meeting at Chateau Bleu Motel, in Miami, in July. Action was taken to set up a committee to aid widows of SK members in evaluating equipment to be sold. Several members have been so involved recently, and it is a great help to the widow.

We are setting up a car-pooling arrangement for the trip to Orlando...the Chapter is planning on have many members present.

Several members brought photographs of their old stations to the meeting, and clippings of long ago ham event. This led to a good discussion of experiences from the past. At the close of the meeting, everyone gathered for a group pix a copy of which is shown below. Chapter president, K4KQ is relocating to central Florida and this was probably his last meeting with us, we'll sure miss him, but wish him all fine things.

The Chapter will again hold a QCWA luncheon Saturday, at the MIAMAI HAMBOREE, in February, 1981. Last years luncheon was a real success with 100 attending from around the US...

--Glen, W4KO--



Beaver State Chapter

The Chapter's June meeting was held at Newport on the Oregon Coast. We had a dinner meeting with fifty-one members and guests attending. Many travelled quite a distance to attend -- Chuck, W7BCJ, and Chet, W7ALM, came from Astoria; Ev, W7EM, and Martin, W7CRF, from Portland; and one of our newest members, Henry, W7BGR, from Beaverton -- all are approximately 150 miles distant.

New Officers were elected;

Jay Teed, W7UIU, President
George Galley, W7MCQ, Vice President
Dolores Morgan, W7VLG, Sec/Treas.

There was a moment of silence in memory of Bob Whinery, W7EVE, who became a silent key on May 16th. He was a charter member of the Chapter. Mike Chaplin, WA7SSO, presented a very interesting slide program on his experiences as a ham in Malaysia, entitled, "How to Lose Weight Without Trying". Mike and his family were on a government project in Malaysia for a year.

Beaver State Chapter was chartered June 19, 1978, with 43 members and has now grown to 119! We also have our first family (mother, father and son) group, Howard & June Truax, W7SO and W7RAX and son Henry, W7BGR.

A picnic has been scheduled for the August meeting --
y'all come now!

--Dolores, W7VLG--

MEMBERS ARE REQUESTED TO CONSIDER NOMINATING CANDIDATES FOR OFFICE...NOMINATION BY PETITION REQUIRES THAT AT LEAST 100 MEMBERS, IN GOOD STANDING SIGN THE PETITION. PLEASE TRY TO FIND GOOD CANDIDATES, NOMINATE THEM BY PETITION!

SYDNEY CHAPTER QCWA

Harry Caldecott, VK2DA, wrote a letter with news of activities in Australia. The Chapter regretfully announce that Frank N. Leverrier, VK2ADE, passed away on June 21, 1980... Frank was well known throughout the world, and greatly esteemed as a fine gentleman and great amateur. He will be missed.

Sydney Chapter continues to grow, with new members joining regularly even though mail service between Sydney and Headquarters leaves lots to be desired. New members in the Chapter are:

A. E. Robertson, VK2US and,
A. W. Stowar, VK2AS

Bill Hall, VK2XT, has been issued his Golden 50-Year Certificate. Bill is QSL Officer for VK2 and handles thousands of cards every year!

--Harry, VK2DA--

CENTRAL OKLAHOMA CHAPTER No. 63

QCWA activities in the Central Oklahoma Chapter were highlighted this summer by two major events...Ham Holiday 80 in July and the Chapter's third quarterly meeting.

Charles Dibrell, W5BLW, of Ardmore, received his Golden 50-Year Certificate at Ham Holiday.

Forty-four Chapter members and guests enjoyed lunch and the quarterly meeting at Ramada Inn in OKC on August 17. A very interesting program was presented by Dr. William N. Harsha, Director of the Oklahoma Spine/Pain Clinic. All attendees joined in helping Harold Gilbertson, W5RB, celebrate his birthday. George Holt, W5DDI, gave a current report on the progress of Jerry Brody, W5MCJ, after those trips to the hospital. Thirteen of those present were from outside the Oklahoma City area.

We had record attendance at our last quarter "on-the-air" meetings (average 34) with perfect attendance by (15), W5AA W5DDI, W5EIO, W5EHR, W5HXL, W5HXR, W5JJ, W5KE, W5LVQ, W5NL, W5OZE, W5RB, W5REC and W5VEJ. Runner up awards (only one missed meeting) by: W5FIJ, W5FX, W5HFU, W5HZD and W5NDJ...

--Ralph, W5AA--

CENTRAL INDIANA CHAPTER

The Central Indiana Chapter met July 8, 1980, with about 30 members and guests present at Mac's Family Steakhouse... Highlight of the meeting was presentation of the QSO PARTY First Place Award (CW), won by Bill Branche, K9CLO. The presentation is pictured below. Bill (on the right) accepts the Plaque from Jerry Lucas, W9BS, at left. Now you guys can see the fellow behind that whomping signal on the Party.



After the meal, enjoyed by all, the meeting was given to a long rag-chew and enjoyable eye-ball QSOs!

--Jerry, W9BS--

SOUTHERN CALIFORNIA CHAPTER

Out of 108 reservations for our Spring Dinner meeting, we had only one no-show and sorry that we had to turn down ten others. Chairman Bert Ayers, W6CL, had the pleasure of distributing 50-Year Golden Certificates to: Tom Settle, W6CUJ; Bob Jensen, W6VGQ; Bill Stewart, K6HV; Ralph Cabanillas, Jr., W6IL, and Gene Stephens, WA6HOQ. They are shown in the pix below in that order, L-R, except for Bert who is the member without the Certificate!

Our hardworking public relations Gal, Lenore Jensen W6NAZ gave us an idea of what was happening in the field of ham publicity by playing some of the latest "commercials" for Amateur Radio that were made by Dick Van Dyke and by Lorne Green. Then, the inimitable Mert Moser, W6HS, described his trip around the world with his Lady, Ruth. He will not forget the stop at Pitcairn Island (ask him for details!)

As this is being written, arrangements are going forward for the Southwestern Division ARRL Convention. The QCWA will have a booth in which to exhibit among other things a Thordarson 1 kW spark rig with rotary gap, courtesy W6VGQ.. To update things we are going to try to key the "Beast" by means of a Morse keyboard (if it gets finished in time.)



The Convention will be at the Airport Marriott Hotel, in Los Angeles, on September 5, 6 and 7. In the planning stage is a Hospitality room and Breakfast for members of QCWA!

- - - - - Moe, W6PHE - - - - -

QCWA IS SPELLED "FELLOWSHIP"ARK-LA-TEX CHAPTER

The Ark-La-Tex Chapter of QCWA met at the Brookshire Cafeteria in Shreveport on the evening of July 22, 1980

The Chapter was advised that due to a transfer, our President, Father Jay May, W5QIK, could not complete his term in Office. A committee appointed Joe Carlson, W5LQ, as interim president, to take place as soon as he returns from his annual vacation trip. Our Secretary-Treasurer, John Ross, W5NFV, conducted the meeting.

Other than a "Good Old-Fashioned Rag-Chew" the only serious business at the meeting was arrangement of a committee to maintain the QCWA Booth at the Annual Show of the Shreveport Amateur Radio Association, to be held at Concentration Center, on August 2 & 3. A QCWA Breakfast to be held at the Bossier Samb's on Saturday Morning, August 2, was arranged.

Attending the meeting: John Ross, W5NFV; Ernie Gaw, W5MXC; Dan Barton, W5MJC; Harold Hicks, KH6OES; Bud Ports, WSAJS; Dwight Brown Jr., W5WER; Dwight Brown Sr, W5ABA; Roy Matthews, W5KX; Ralph Payne, W5JFF; Andy Lord, W5MFS; R. O. Barney, W5ISP; Dayle Odell, W5CMV; W. D. Pearson, W5WDG; Joe Barber, W5AXA; Virgil Holobaugh, W5LMS; Homer Hooper, W5DPS; Jim Long, W5PNB; a new member, Tony Hall, K5KDQ, & Irv Wolfe, W5RQH.

The next meeting will be held Tuesday evening, October 21, at 6:30PM, at the same location....all are welcome!

- - - - - Irv, W5RQH - - - - -

WISCONSIN CHAPTER #55

At left, a photo taken at the last Chapter meeting in June, John La Blonde, W9FZC, being awarded his 50-Year Golden Award. John has held the same call the entire 50 years and has been a very active ham! His work began in 1928 in the town of Antigo, WI, with help from W9CGO, now SK, his first rig was a hartley using a 112 with 300 V on the plate, AC!! It sounded like a keyed power leak!

John is Training Officer for the Wisconsin Law Enforcement computer systems working out of Madison, traveling widely, he uses 2 meters throughout the State. He participates in the QCWA Net and the Midwest Country Cousins as NCS!

The Chapter is planning a fall luncheon meeting in October. The location is not yet selected, will be announced later!

=Fred, W9NZF=

QCWA NOMINATING COMMITTEE CHAIRMAN Lew Sieck, K4NE, has sent a letter of inquiry to all present QCWA Officers and directors inquiring as to their desire to serve an additional term. A letter which outlines Committee procedures from the Chairman, has been transmitted so that all will understand their responsibilities.

HALIFAX CHAPTER #125

The Chapter organizational meeting was held July 12, 1980. Nineteen Members and guests were present at the meeting called to order at 11:15 AM by Acting Chairman, Dick Frederic, N4CBU.

The proposed Constitution and By-Laws were read; minor amendments were adopted via voce and adopted as read. Election of Officers to serve until July of 1981 saw the following elected:

Dick Frederick, N4CBU, Chairman
Bill Holdich, K4GJ, Vice Chairman
Francke Fox, WB4WTJ, Secy/Treasurer

Regular informal meetings will be held the second Saturday of each month. Business meetings will be scheduled on a quarterly basis. On-the-air meetings will take place Saturdays, 11AM on 3897 kHz. Chapter members adopted a dues schedule of \$3.00 per year. It is planned that a convoy of members will go to the National Convention!



Pictured above, L-R, are: Bill Holdich, K4GJ, Vice Chairman; Dick Frederick, N4CBU, Chairman; Francke Fox, WB4WTJ, Secretary/Treasurer! Photo by W2DXZ.

QCWADS

QCWADS ARE SPECIAL, LOW COST ADS ACCEPTED FOR PUBLICATION IN QCWA NEWS SUBJECT TO THE FOLLOWING RULES

No special layouts, all copy is re-typed by Headquarters. Time permitting, proof copies will be mailed before publication. One column inch refers to original copy, which will reduce to three quarters of an inch in the news.

RATES

<u>Column Inches</u>	<u>1 Time</u>	<u>3 Times</u>
1	\$3.00	\$7.50
2	\$5.00	\$12.50
3	\$7.00	\$17.50

- o DX-AWARDS GUIDE is growing! Volume 5 nearly ready! Provides single-source for information on international DX awards; provides blanks to use in applying. So far, +160 awards included. More come each day! SASE for list of those available now!

Write:

DX AWARDS GUIDE
POB 1136A
Welch Station
Ames, IA 50010

1t

ATTENTION HEATH 104 OWNERS. Improve "S" meter action, receiver sensitivity and IM. Reduce hum. Easy modifications take about one hour. May improve other receivers too. Send \$12 for details, Parts free.

Lowell White, W2CNQ
1318 Meadowbrook Street
Kissimmee, FL 32741

2

QSL CARDS Top Quality Coated, White Card Stock. Custom designs-you have an unlimited choice. QCWA logo available. Send #10, 28¢ SASE for samples, type, style sheets, cut sheet and price list. Write to:

Mary Mahre, WØMGI, 2095 Prosperity Avenue, St. Paul MN 55109

2

WANTED! In any condition Hallicrafters Super-Skyriders, any model, also plug in coils for Pilot Super Wasp, Hammarlund Comet Pro and National FB-7. Any old ham receivers especially FB-7, Comet Pro and RME-69. Write or Call:

Dave Medley, 6621 Duffield Drive Dallas, TX 75248, Phone 214 386 3982

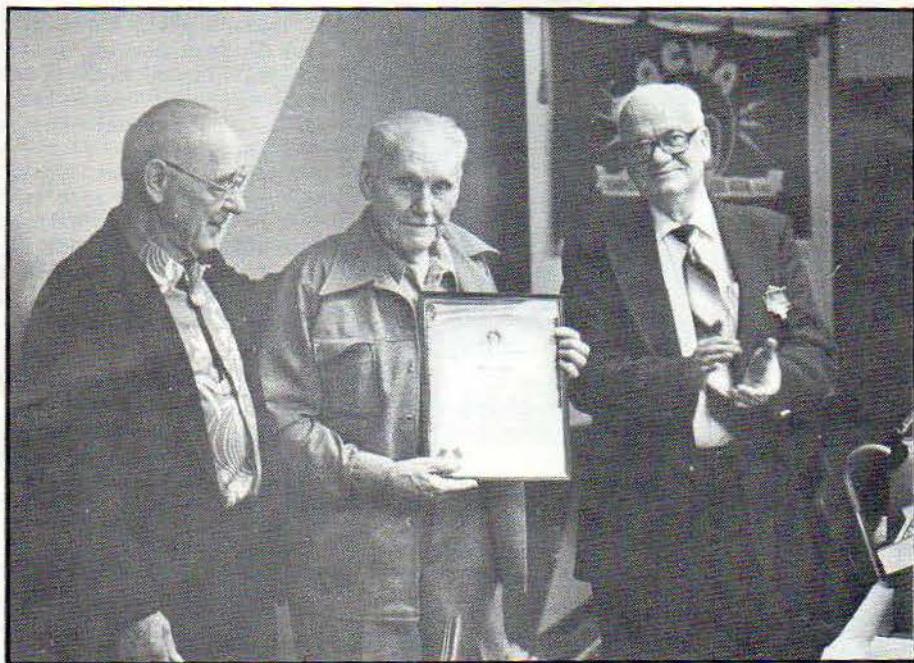
2

CUSTOMIZED QSLs by W6BA \$17.50 for 1000!

No standard forms. We try to print whatever you want. Black ink on colored 110 pound stock. Write for samples of cards that we have printed:

Bill Adams, W6BA
Star Route 2, Box 241
29 Palms, CA 92277

3t



Harry, W7MCW, was honored at the Annual meeting of the Northwest Chapter, No. 4 at Issaquah, WA, on June 12, 1980. Chosen to receive the Meritorious Award, Hal, W7PN, presented him with the plaque in recognition of his many efforts promoting QCWA, his tenure as noon-time NCS and his work for the Chapter at Alderbrook, '78



EL PASO CHAPTER OF QCWA

Pictured at left is Taft Richardson W5ANB, of Alamogordo, NM, a member of the El Paso Chapter, QCWA being presented with his 50 Year Golden Certificate, by Otto Richardson, W5IGU, President of the El Paso Chapter

QCWA WISCONSIN CHAPTER #55

Excerpts of Minutes, June 7, 1980 get-together.

The Chapter held its Spring Luncheon June 7, 1980 at Whiting Motor Hotel in Stevens Point, WI. 90 members & guests were present and sat to a tasty buffet at 12 Noon.

Following business, presentation ceremonies of Golden Certificates to W9FZC and W9GF were carried out. W9ODV was given his 54 year endorsement. Chapter Chairman, Gordy Fedder, W9YFW, welcomed new members, W9ACQ, W9GHY & W9KLM.

Discussion regarding the best location for future meeting places was held. An announcement of the decision will be made at a later date.

Visitors from Chicago, for the meeting were: W9RK, W9AVP & W9IUJ.

-Fred, W9NZF-

WILL BUY MANUAL ON RBA-7 VLF RECEIVER.

E1 Charlton, WSMD
1533 Outrigger Drive
Baton Rouge, LA 70816

Frank Hartley, VE3JT, reports that he and others in Ontario did not receive QCWA NEWS for the Spring of 1980. We sure don't know what happened, but did send copies of the NEWS to Frank. We have a few copies remaining, and if you need one, we'll be glad to send another copy as long as they last.

Frank mentioned that he had not heard results of the QSO PARTY competition.. These are always published in the Summer QCWA NEWS. Competition ends about March 15, and after mail is received & scoring takes place, we get the final results just in time for the Summer... That's a long time, but it just can't be helped very much.



PIX BY W7ACP

QCWA NORTHWEST CHAPTER ANNUAL MEETING
Issaquah, WA June 14, 1980

Seated in front: L-R, Tom Jobs, W7TU; Herbert Williamson, K7LYT; Walter Walker, W7JS; Al Wyndham, W7BWG, Warren Green, W7JY; Frank Piskur, K7FP.

First Row, L-R: F. C. J. Spike, W7OS; Herb Aukland, W7AUK; Russ Mollick, W7NMT; Al Mowery, W7BCS; Harry Jackson, W7MCW; Howard G. Barton, W7UO; Beth Taylor, W7NJS; Toddy Nye, W7LCS; Ethel Devish, W7WLX; Ray Stekly, W7GRM.

Second Row, L-R: Geo. A. Onsum, W7IC; Earl Thoms, W7DJ; Jerry Johnson, KA7APK; John E. Layton, W7GPS; Roy E. Christop-
herson, W7NJJ; Dewey Wilson, W7HF; Don Lotz, W7CWN; Jack Robinson, W7MEA; Mike Kalivoda, AB7R; Charles
Williamson, W7AN; Roy Devish, W7AZI.

Back Row, L-R: Joseph Shinners, W7VIH; Ken Sullivan, W7AGV; Ray Etherington, W7FNC; Tom Gettelman, W9IZO; Calvin Morgan,
Jr., W7SFT; Barney Egerer, W7GR; Harold Johnston, W7PN.

CENTRAL VIRGINIA CHAPTER No. 116

The Central Virginia Chapter No. 116, had a very successful meeting on June 21, 1980, in Lynchburg. There were 13 members attending. The program featured Bill Lawrie, WA4JJE, who spoke on the matter of making printed circuit board. His talk was excellent & samples of work he has done were made available for inspection.

President John Bush, W4FOD, introduced Jim Ardery, WB4PLV, our newest member. It was announced that George Rulffs, Jr., AA4GR, had received his 50-Year Golden Certificate for continuously licensed status, and also a plaque from ARRL for his 50 years membership in the League. He was licensed 6-21-30!

The next Chapter meeting was scheduled for September 20, at Sambo's. Visitors are welcome!

The Chapter has a paid-up membership

of 24, as of June 21!

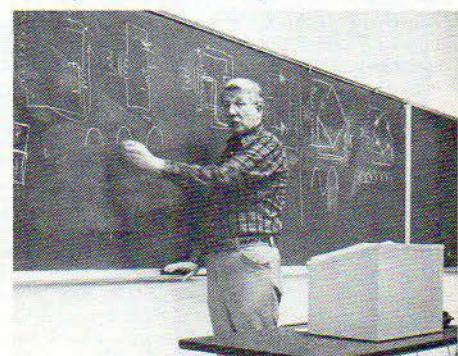
Comment was made that the picture of Bill Uzzell, on Page 36, of QCWA NEWS did not identify him by call....His call is W2BNX and is a Member of CVC, and lives in Amherst, VA. We were Boy Scouts together, way, way back!

-George, AA4GR-

Blue Ridge Chapter

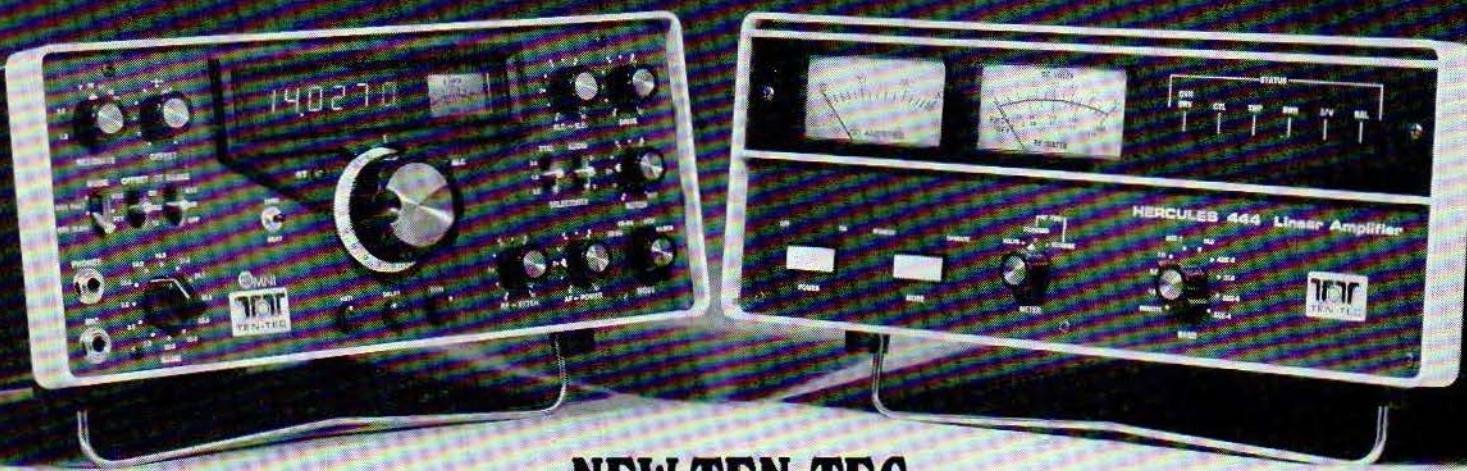
The Blue Ridge Chapter of QCWA assisted in the operation of a novice amateur radio operators class...sponsoring the class jointly with the Blue Ridge Technical College. 21 registered for the class, 11 have passed the code test & will soon be taking the theory. All who completed the course passed easily both theory and code. ARRL materials were used. The class was taught by Les Gruol, WD4LBG. He is shown in the pix

below, while teaching class.



------Walt Howe, W4OZN -
Dr. Gerhard Jacoby, DL3ME, was
in attendance at the ARRL meet-
ing in Seattle, and expected to
visit in San Francisco and New
York, during August. He sent
his condolences for those of us
who have had such hot weather!

SUPER RIG



NEW TEN-TEC OMNI-C 9 Band Transceiver + HERCULES Solid-State KW Linear

TEN-TEC SUPER RIG IS READY. For every band, every band condition. With the latest in solid-state hf technology, the latest in features. To make communications easier, more reliable — super.

OMNI-C

The new model in this famous series. With new coverage and new features to make it better than ever!

All 9 HF Bands. From 160 through 10 meters, including the new 10, 18 and 24.5 MHz bands. Coverage you can live with—for years and years.

3-Mode, 2-Range Offset Tuning. Offset the receiver section or the transmitter section or the entire transceiver! In 2 ranges: ± 500 Hz or ± 4 kHz. For complete flexibility in fine tuning, a DX work, or net operations.

Seven Response Curves. Four for SSB, three for CW. With new switching to select the standard 2.4 kHz filter, optional 1.8 kHz SSB filter, 500 Hz or 250 Hz CW filters, and standard 450 and 150 Hz CW active audio filters. Up to 16 poles of i-f filtering plus audio filtering to handle any situation.

Built-In Notch Filter and Noise Blanker. Notch is variable from 200 Hz to 3.5 kHz with a depth of more than 50 dB. New noise blanker reduces ignition and line noise. Both standard equipment.

"Hang" AGC. New, smoother operation.

Super Specs. Optimized sensitivity—a balance between dynamic range and sensitivity ($2 \mu\text{V}$ on 160 to $0.3 \mu\text{V}$ on 10 meters). Greater dynamic range: better than 90 dB. And a PIN diode switchable 18 dB attenuator. 200 watts input on all bands! 100% duty cycle on all bands for up to 20 minutes.

Super Convenient. Built-In VOX with 3 up-front controls. Built-In PTT control at front and rear jacks. Built-In Zero-Beat switch puts you on exact frequency. Built-In Adjustable Sidetone with variable pitch and level. Adjustable ALC for full control from low power to full output. 2-Speed Break-In, fast or slow speeds to fit operating conditions. Built-In Speaker eliminates desk clutter. Automatic Sideband Selection—reversible.

Super Design. All Solid-State and Broadbanded—from the pioneer, Ten-Tec. Modular plug-in circuit boards. Functional Styling with convenient controls, full shielding, easy-to-use size ($5\frac{3}{4}''\text{h} \times 14\frac{1}{4}''\text{w} \times 14\frac{1}{4}''\text{d}$).

Super Hercules Companion. Styled to match, plus separate receiving antenna capability, plus transceiver front panel control of linear's bandswitching (one knob does it all).

Full Accessory Line including filters, remote VFO, power supplies, keyers, microphones, speech processors, antenna tuners—all in matching color.

Model 546 OMNI-Series C.... \$1189.

HERCULES

Amateur Radio's first full break-in solid-state kW linear amplifier. With the reliability you'd expect from the pioneer in high-power solid-state technology—TEN-TEC.

All Solid-State. No tubes. Instead, HERCULES uses two 500-watt push-pull solid-state amplifier modules with an output combiner. Super solid.

Broadband Design. No knobs, no tuning. From the pioneer, TEN-TEC. For fast, effortless changing of bands. Super easy.

Automatic Bands switching when used with OMNI (the OMNI bandswitch also controls HERCULES bandswitching through a motor driven stepping switch). Super convenient.

Full Break-In. HERCULES puts the conversation back into high power CW operation—you can hear between every character you send.

Full Coverage. 160 through 15 meters plus four "AUX" positions for 10-meter conversion by owner and future band additions.

Full Gallon. 1000 watts input on all bands, 600 watts output, typical. Built-in forced-air cooling. Driving power: 50 watts, typical. Adjustable negative ALC voltage. 100% duty cycle for SSB voice modulation; 50% duty cycle for CW/RTTY (keydown time: 5 minutes max.) Continuous carrier operation at reduced output.

Full Protection. Six LED status indicators continuously monitor operating conditions and shut down the amplifier whenever any one exceeds set limits (the exciter automatically bypasses the amplifier under amplifier shut-down for barefoot operation). The six parameters monitored are: 1) overdrive; 2) improper control switch setting; 3) heat sink temp.; 4) SWR; 5) overvoltage/overcurrent; 6) rf output balance. Two meters monitor collector current, voltage, and forward/reverse power. And a highly efficient automatic line voltage correction circuit (patent applied for) eliminates the need for selecting transformer taps, prevents applying too high a voltage to final amplifier devices, becomes operative under low line conditions.

Super Power Supply. Provides approximately 45 VDC @ 24 amperes, operates on 105/125 VAC or 210/250 VAC. Tape wound transformer and choke reduce weight (50 lbs.) and size ($7\frac{1}{2}''\text{h} \times 15\frac{3}{4}''\text{w} \times 13\frac{1}{2}''\text{d}$). Separate enclosure.

Super Styling. Designed to match OMNI, the HERCULES has the same height as OMNI, plus matching bail and matching colors. The front panel is simplicity in itself with two push-button switches (power and mode) plus two knobs (meter and bandswitch), and a "black-out" monitor panel (when unit is off, meters are unobtrusive). Amplifier size is $5\frac{3}{4}''\text{h} \times 16''\text{w} \times 15\frac{1}{2}''\text{d}$.

Model 444, HERCULES amplifier & power supply.... \$1575.